

## Appendix A for 5.2GWIFI Test Data

Product Name: MINIPC

Test Model: F1

### Environmental Conditions

Temperature:	23.8℃
Relative Humidity:	52%
ATM Pressure:	101.0 kPa
Test Engineer:	Leon Li
Supervised by:	Baret Wu



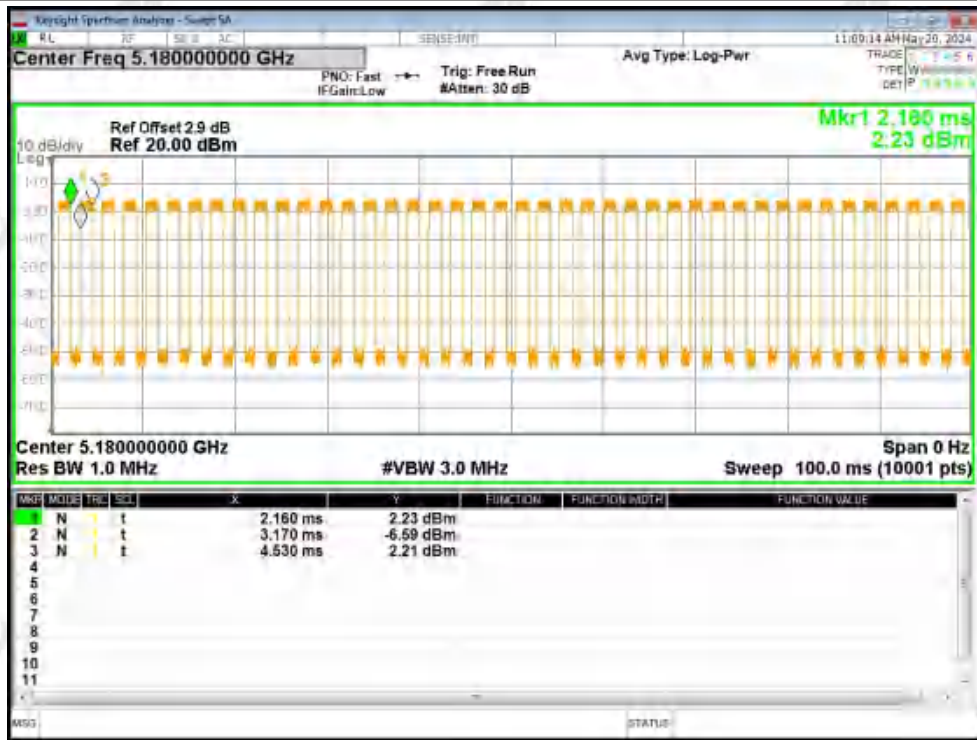
## A1. Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	57.38	2.41	0.74
NVNT	a	5200	Ant1	57.63	2.39	0.74
NVNT	a	5240	Ant1	57.81	2.38	0.73
NVNT	a	5180	Ant2	57.38	2.41	0.74
NVNT	a	5200	Ant2	57.63	2.39	0.74
NVNT	a	5240	Ant2	57.63	2.39	0.74
NVNT	n20	5180	Ant1	56.14	2.51	0.78
NVNT	n20	5200	Ant1	55.7	2.54	0.79
NVNT	n20	5240	Ant1	56.14	2.51	0.78
NVNT	n20	5180	Ant2	56.14	2.51	0.78
NVNT	n20	5200	Ant2	56.14	2.51	0.78
NVNT	n20	5240	Ant2	55.7	2.54	0.79
NVNT	n40	5190	Ant1	39.02	4.09	1.56
NVNT	n40	5230	Ant1	38.41	4.16	1.59
NVNT	n40	5190	Ant2	39.02	4.09	1.56
NVNT	n40	5230	Ant2	39.02	4.09	1.56
NVNT	ac20	5180	Ant1	56.14	2.51	0.78
NVNT	ac20	5200	Ant1	55.7	2.54	0.79
NVNT	ac20	5240	Ant1	56.14	2.51	0.78
NVNT	ac20	5180	Ant2	56.14	2.51	0.78
NVNT	ac20	5200	Ant2	55.7	2.54	0.79
NVNT	ac20	5240	Ant2	56.14	2.51	0.78
NVNT	ac40	5190	Ant1	39.02	4.09	1.56
NVNT	ac40	5230	Ant1	39.02	4.09	1.56
NVNT	ac40	5190	Ant2	39.02	4.09	1.56
NVNT	ac40	5230	Ant2	39.02	4.09	1.56
NVNT	ac80	5210	Ant1	24.24	6.15	3.13
NVNT	ac80	5210	Ant2	24.24	6.15	3.12



Test Graphs

Duty Cycle NVNT a 5180MHz Ant1

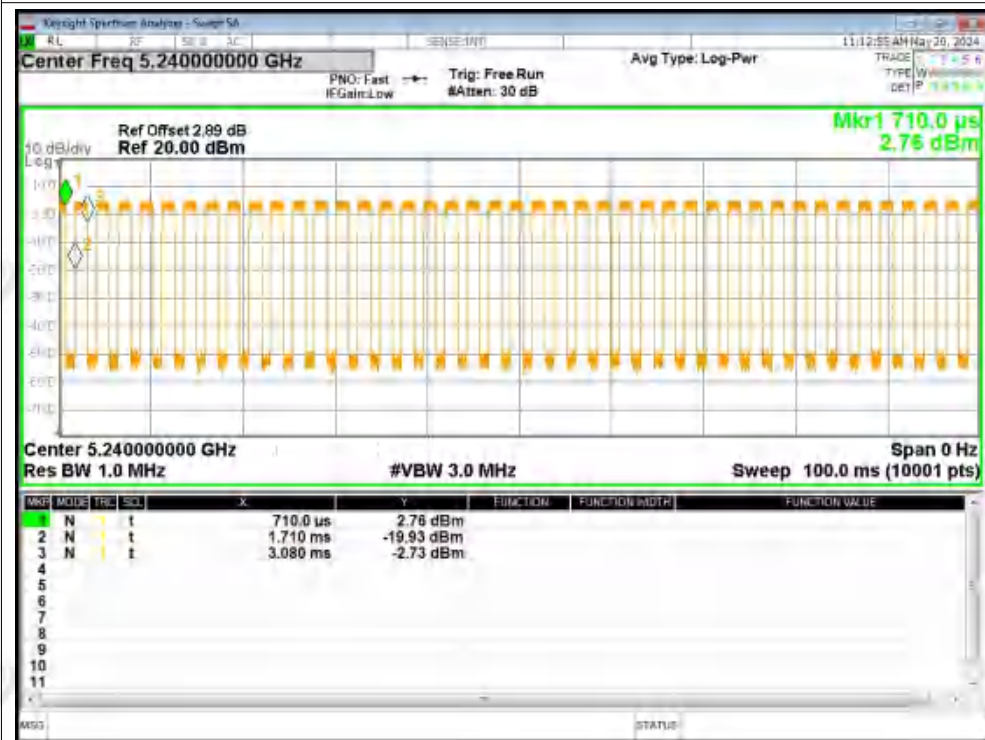


Duty Cycle NVNT a 5200MHz Ant1

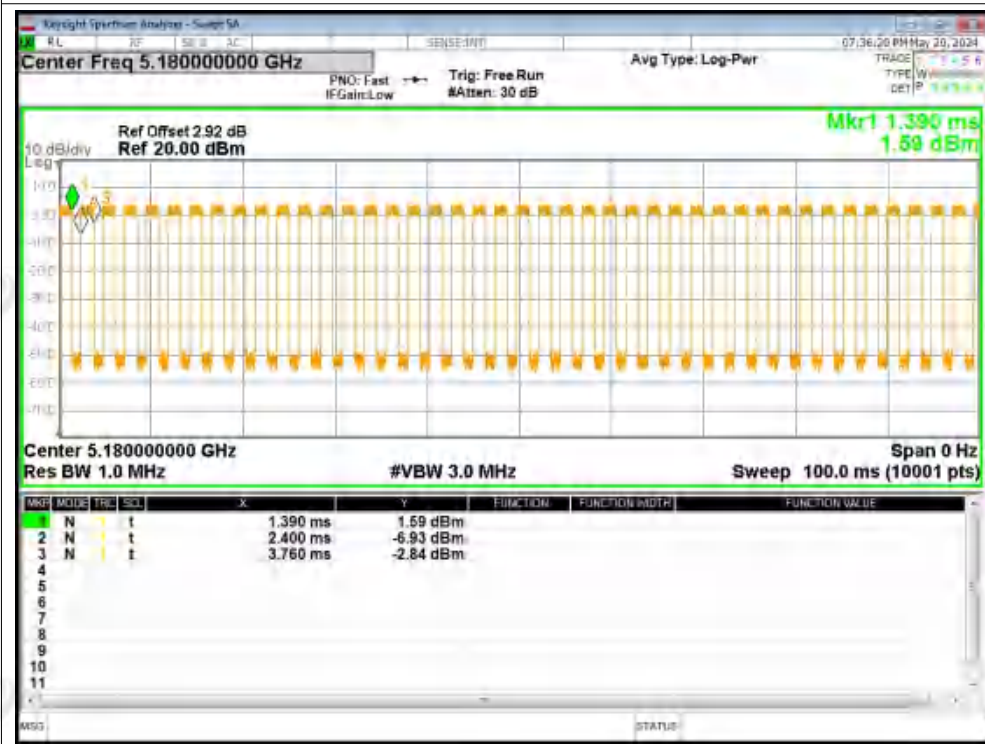




Duty Cycle NVNT a 5240MHz Ant1

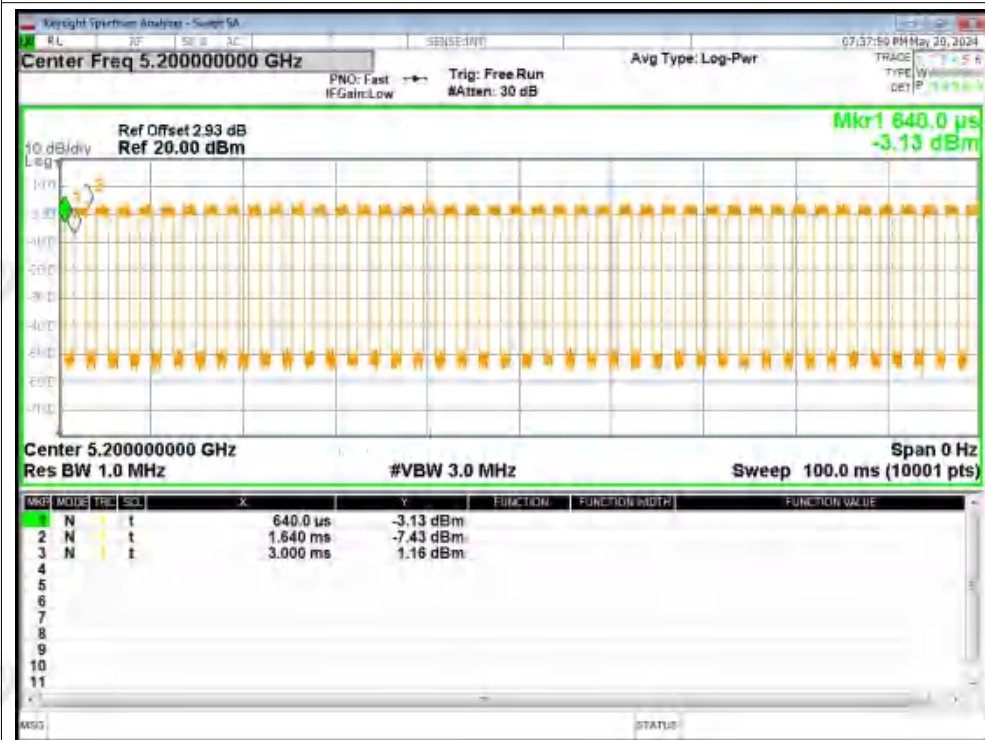


Duty Cycle NVNT a 5180MHz Ant2

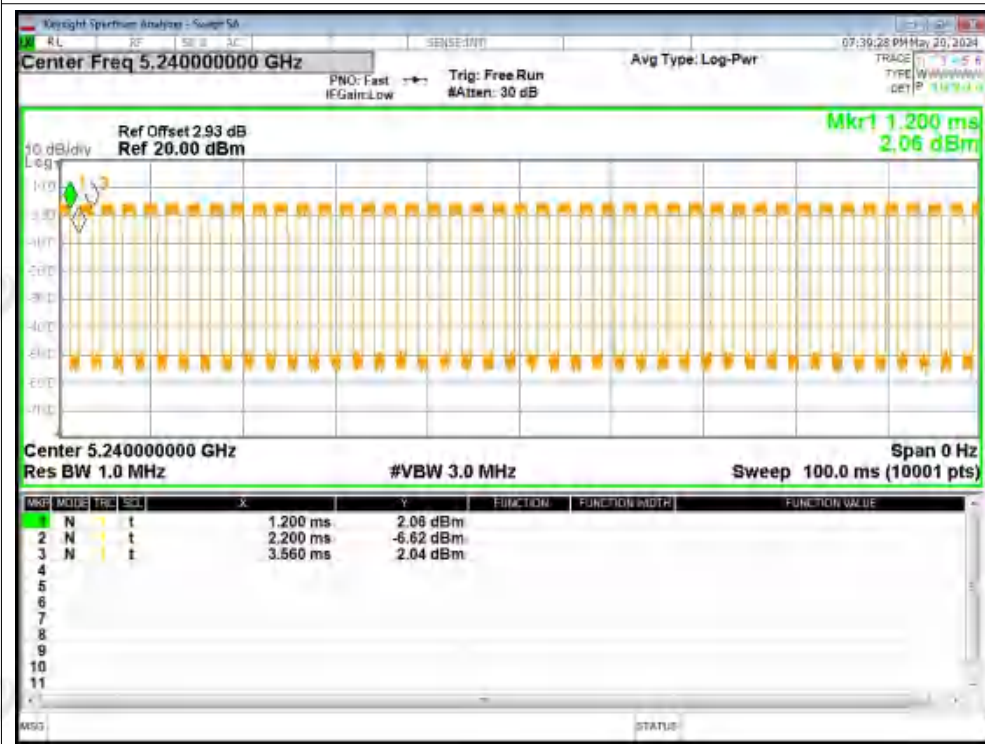




Duty Cycle NVNT a 5200MHz Ant2

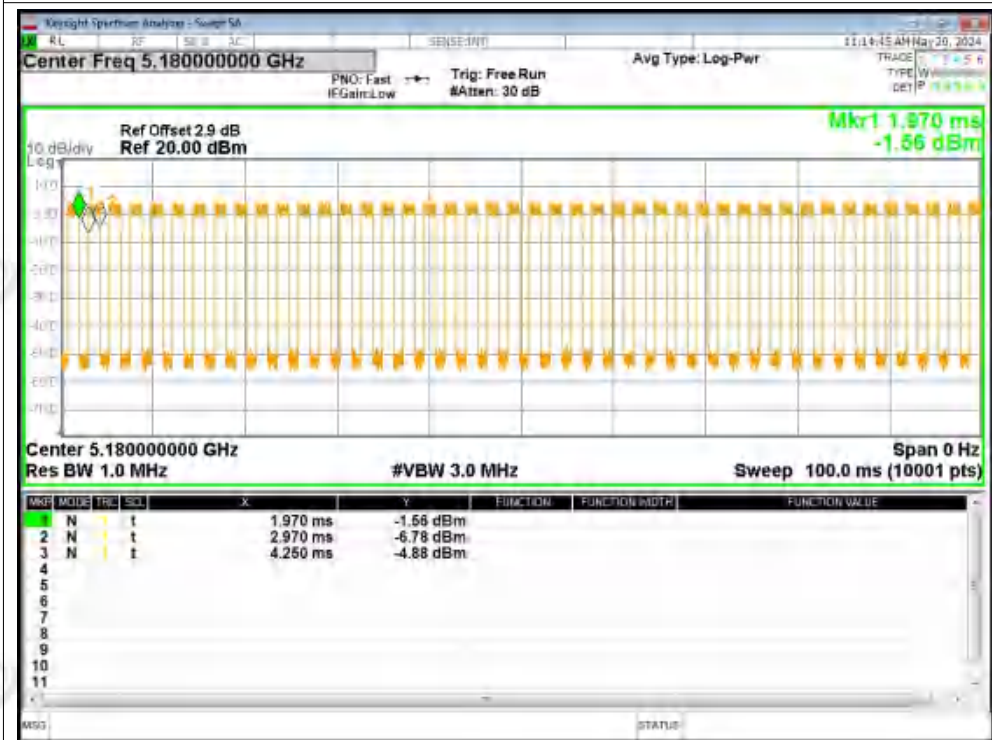


Duty Cycle NVNT a 5240MHz Ant2

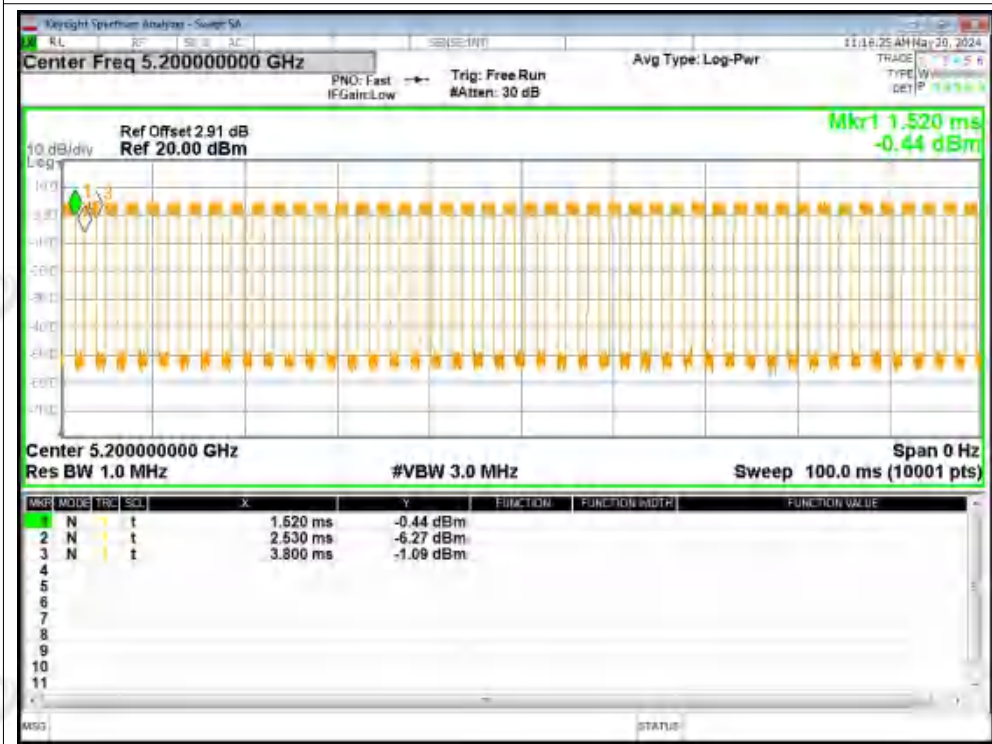




Duty Cycle NVNT n20 5180MHz Ant1



Duty Cycle NVNT n20 5200MHz Ant1





Duty Cycle NVNT n20 5240MHz Ant1

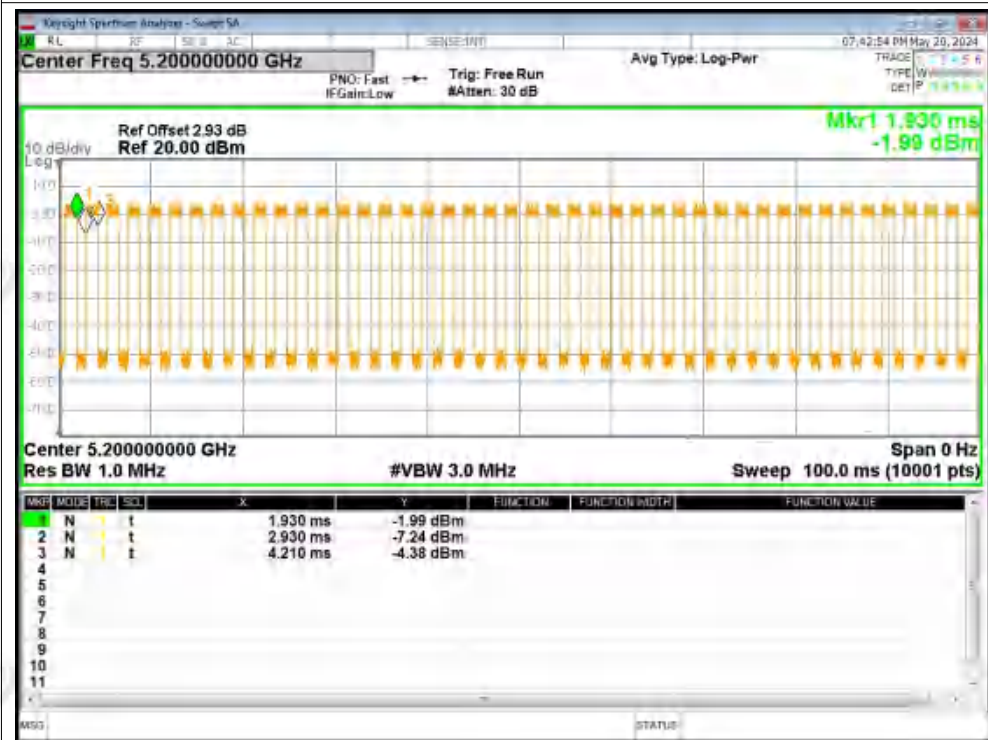


Duty Cycle NVNT n20 5180MHz Ant2





Duty Cycle NVNT n20 5200MHz Ant2



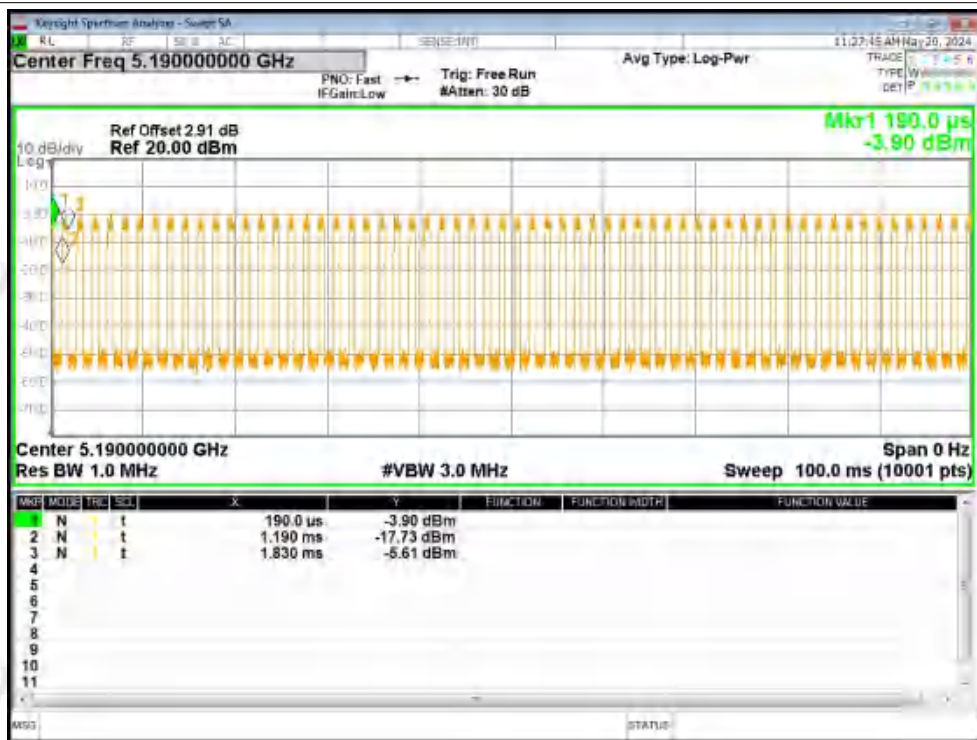
Duty Cycle NVNT n20 5240MHz Ant2







Duty Cycle NVNT n40 5190MHz Ant1



Duty Cycle NVNT n40 5230MHz Ant1





Duty Cycle NVNT n40 5190MHz Ant2

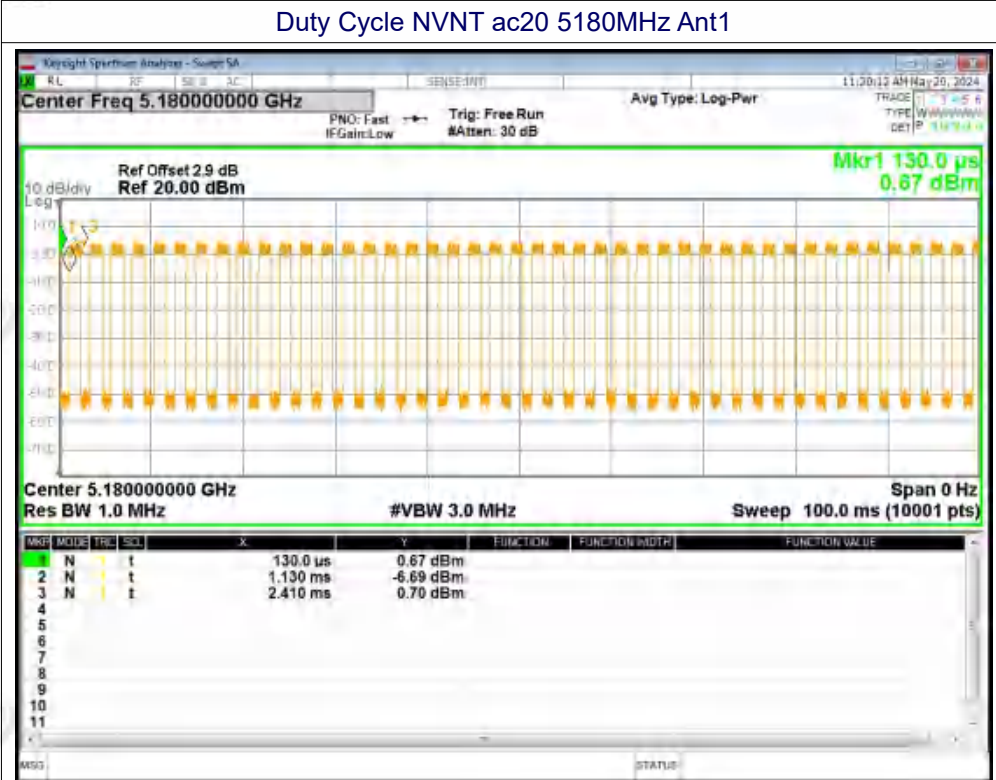


Duty Cycle NVNT n40 5230MHz Ant2

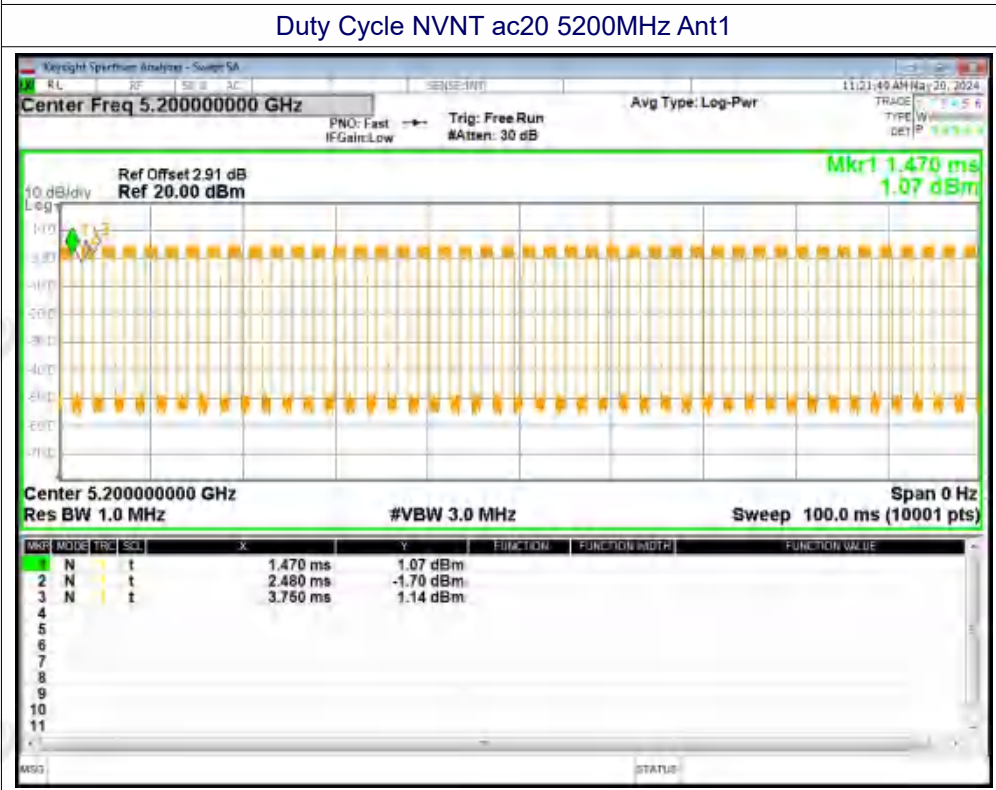




Duty Cycle NVNT ac20 5180MHz Ant1



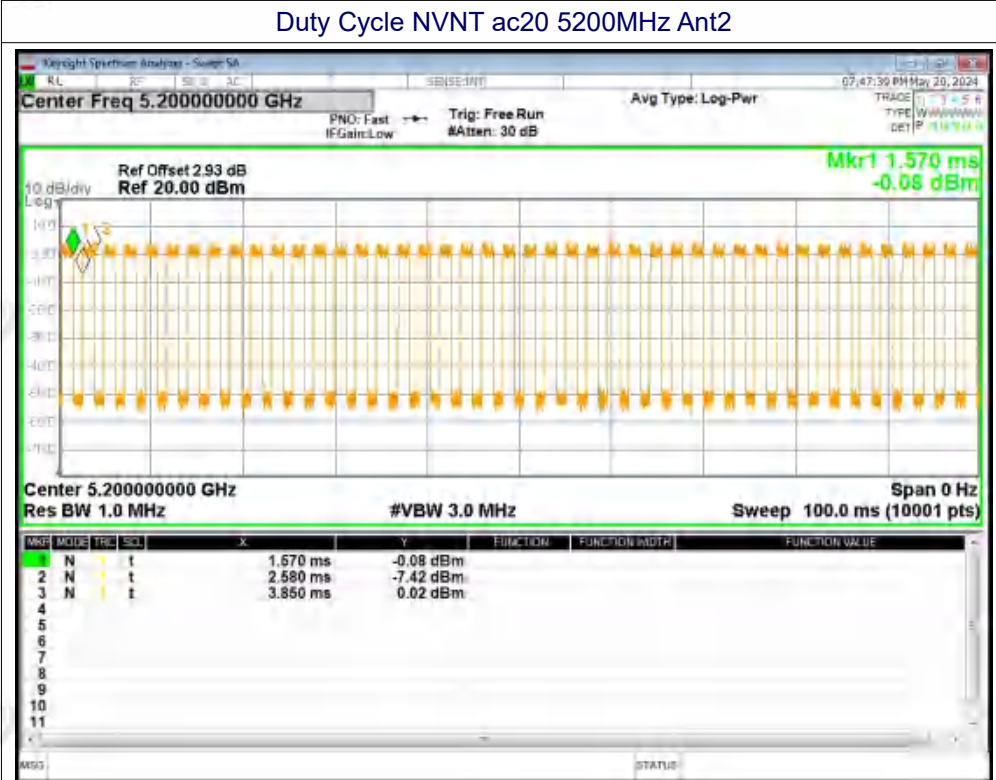
Duty Cycle NVNT ac20 5200MHz Ant1



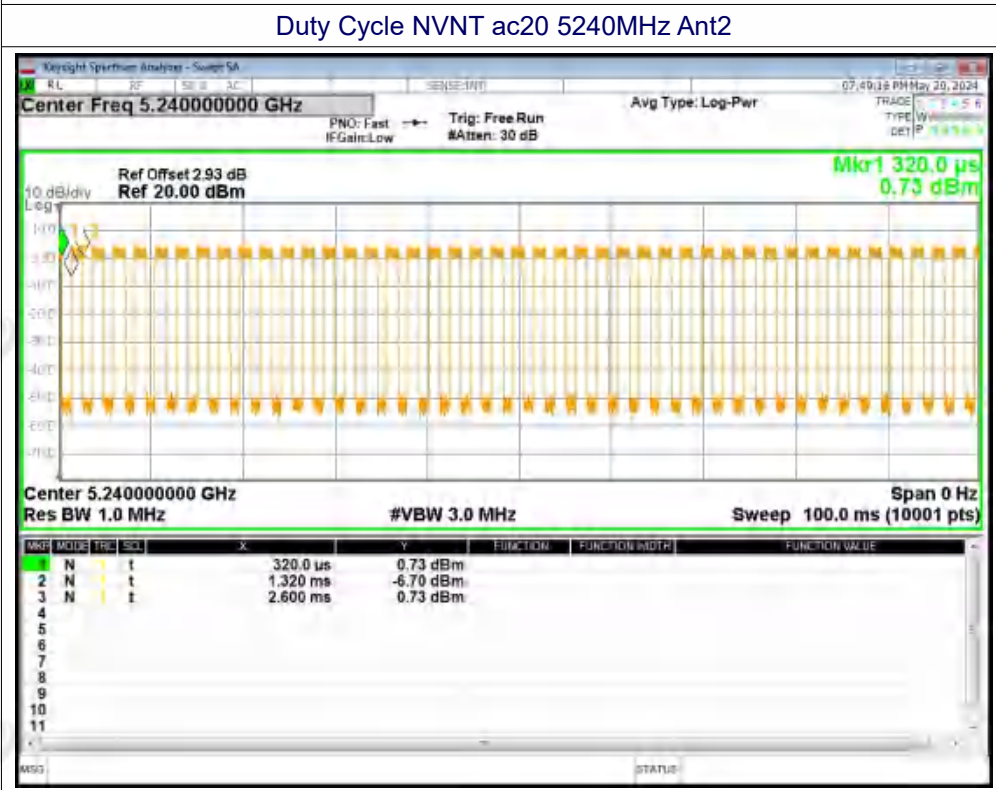




Duty Cycle NVNT ac20 5200MHz Ant2

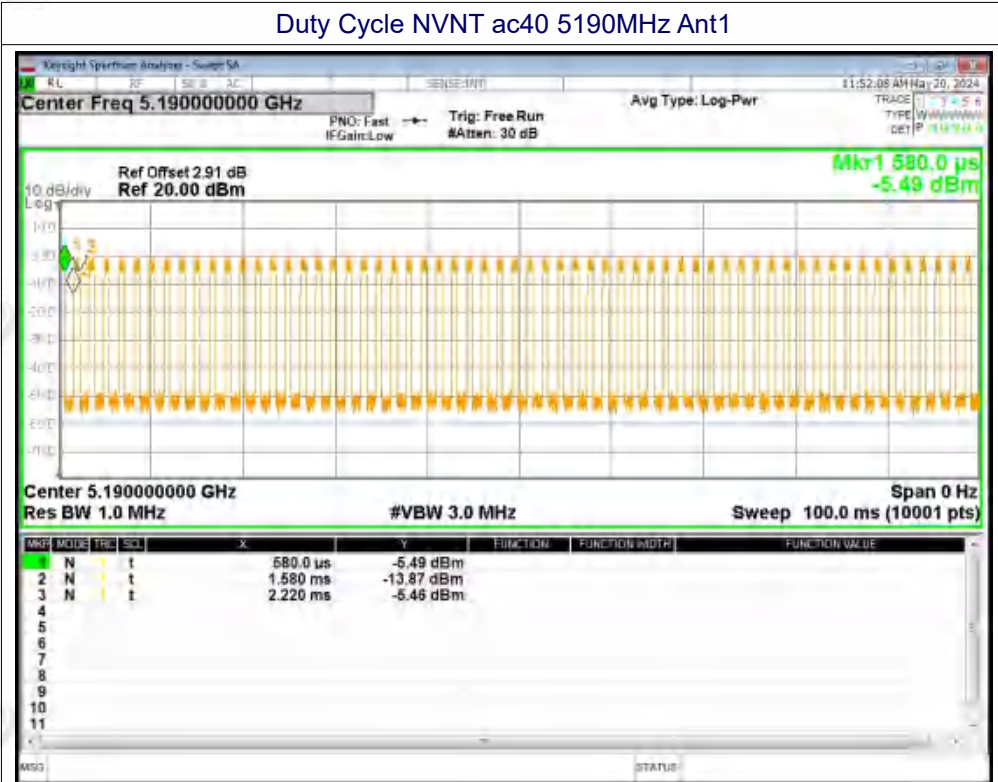


Duty Cycle NVNT ac20 5240MHz Ant2

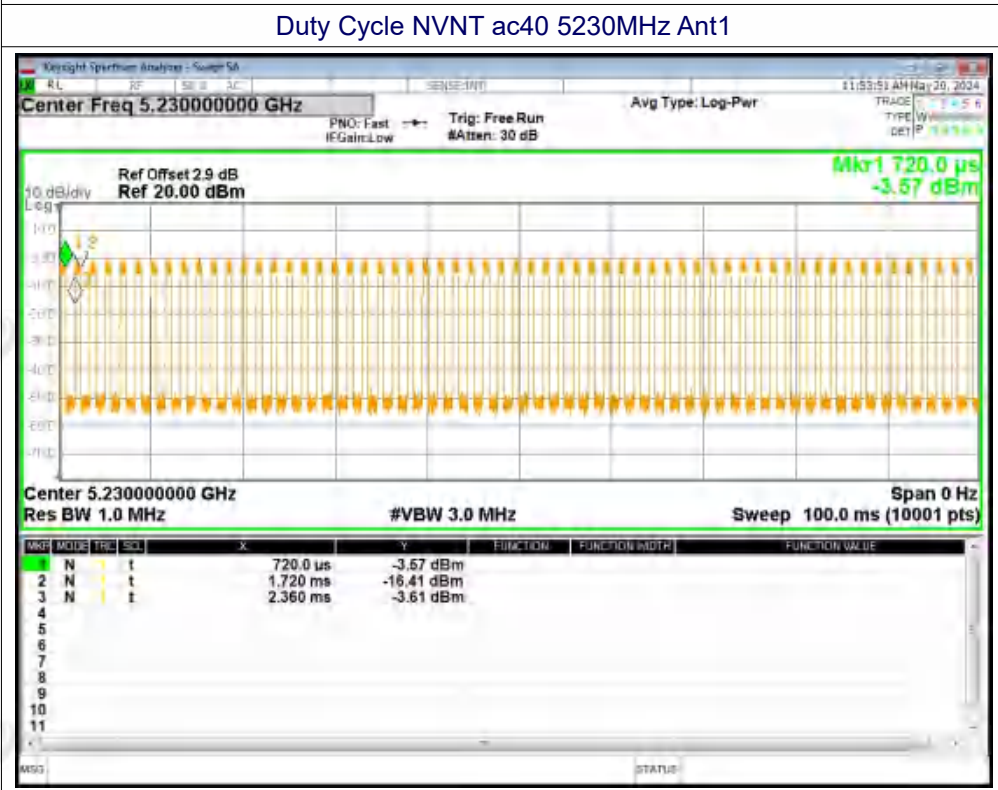




Duty Cycle NVNT ac40 5190MHz Ant1

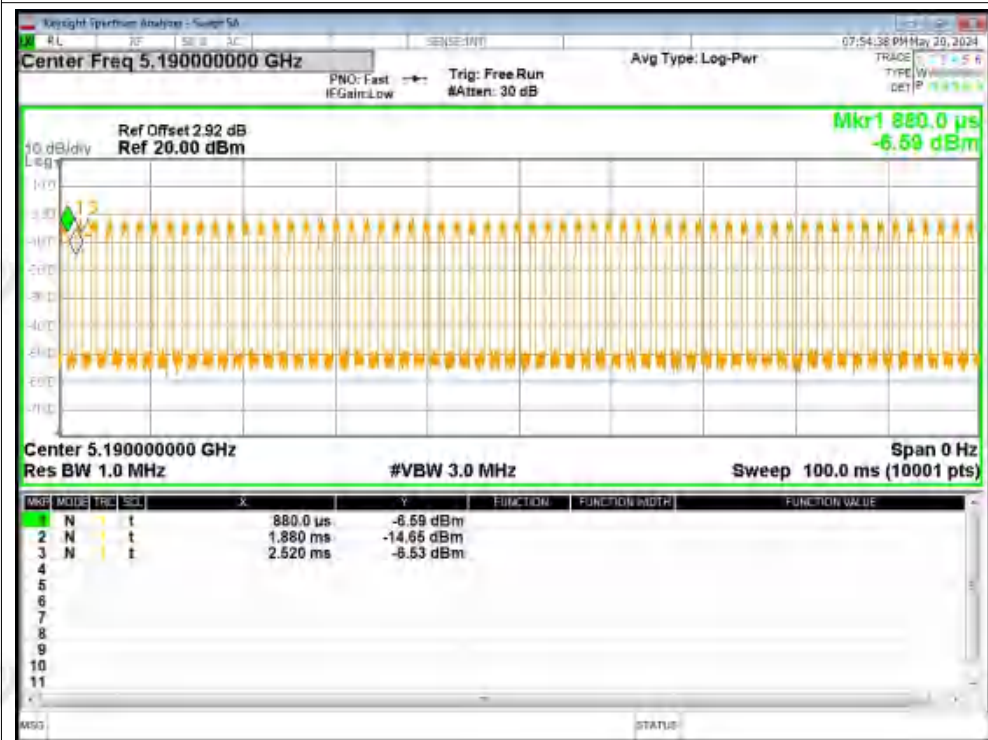


Duty Cycle NVNT ac40 5230MHz Ant1

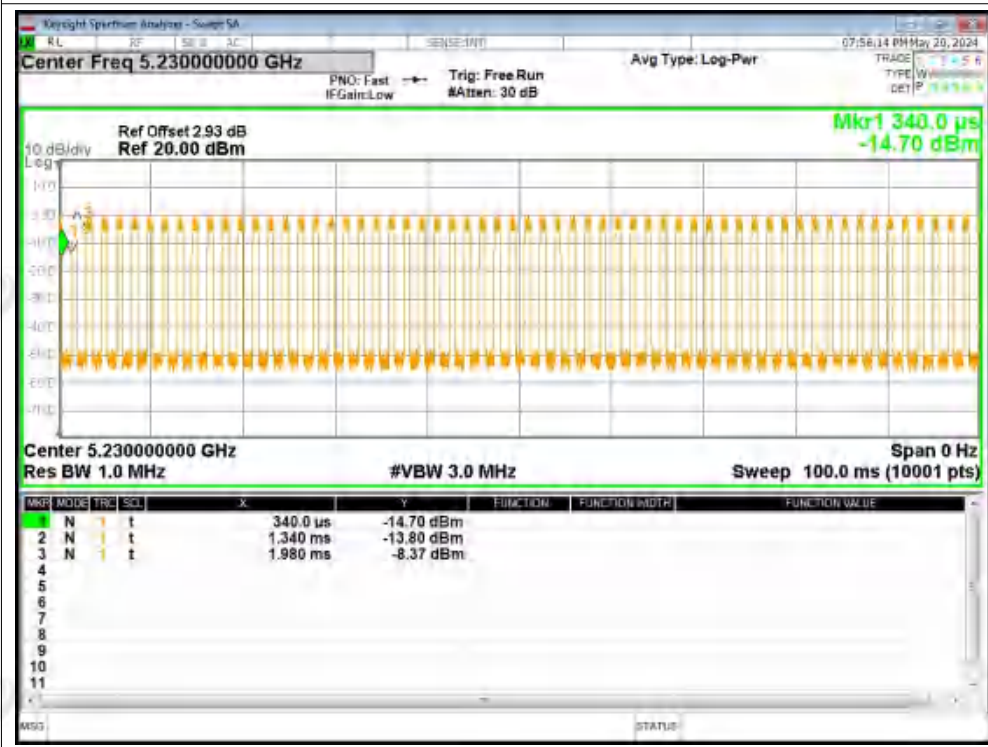




Duty Cycle NVNT ac40 5190MHz Ant2



Duty Cycle NVNT ac40 5230MHz Ant2





Duty Cycle NVNT ac80 5210MHz Ant1



Duty Cycle NVNT ac80 5210MHz Ant2







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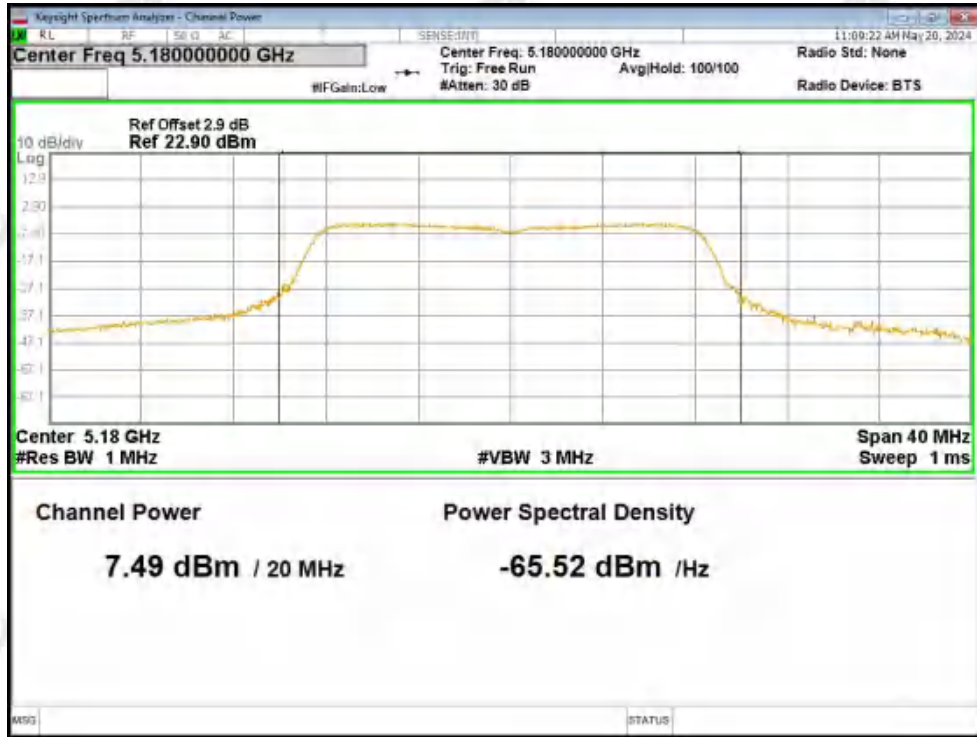
## A2. Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	7.49	2.41	9.9	24	Pass
NVNT	a	5200	Ant1	8.79	2.39	11.18	24	Pass
NVNT	a	5240	Ant1	8.56	2.38	10.94	24	Pass
NVNT	a	5180	Ant2	8.06	2.41	10.47	24	Pass
NVNT	a	5200	Ant2	8.66	2.39	11.05	24	Pass
NVNT	a	5240	Ant2	8.55	2.39	10.94	24	Pass
NVNT	n20	5180	Ant1	7.56	2.51	10.07	24	Pass
NVNT	n20	5200	Ant1	7.98	2.54	10.52	24	Pass
NVNT	n20	5240	Ant1	8.51	2.51	11.02	24	Pass
NVNT	n20	5180	Ant2	6.98	2.51	9.49	24	Pass
NVNT	n20	5200	Ant2	7.09	2.51	9.6	24	Pass
NVNT	n20	5240	Ant2	7.61	2.54	10.15	24	Pass
NVNT	n40	5190	Ant1	7.31	4.09	11.4	24	Pass
NVNT	n40	5230	Ant1	7.41	4.16	11.57	24	Pass
NVNT	n40	5190	Ant2	5.83	4.09	9.92	24	Pass
NVNT	n40	5230	Ant2	6.71	4.09	10.8	24	Pass
NVNT	ac20	5180	Ant1	7.61	2.51	10.12	24	Pass
NVNT	ac20	5200	Ant1	8.23	2.54	10.77	24	Pass
NVNT	ac20	5240	Ant1	8.59	0	8.59	24	Pass
NVNT	ac20	5180	Ant2	6.81	2.51	9.32	24	Pass
NVNT	ac20	5200	Ant2	7.03	2.54	9.57	24	Pass
NVNT	ac20	5240	Ant2	7.68	2.51	10.19	24	Pass
NVNT	ac40	5190	Ant1	6.97	4.09	11.06	24	Pass
NVNT	ac40	5230	Ant1	7.34	4.09	11.43	24	Pass
NVNT	ac40	5190	Ant2	5.09	4.09	9.18	24	Pass
NVNT	ac40	5230	Ant2	6.88	4.09	10.97	24	Pass
NVNT	ac80	5210	Ant1	4.8	6.15	10.95	24	Pass
NVNT	ac80	5210	Ant2	5.09	6.15	11.24	24	Pass

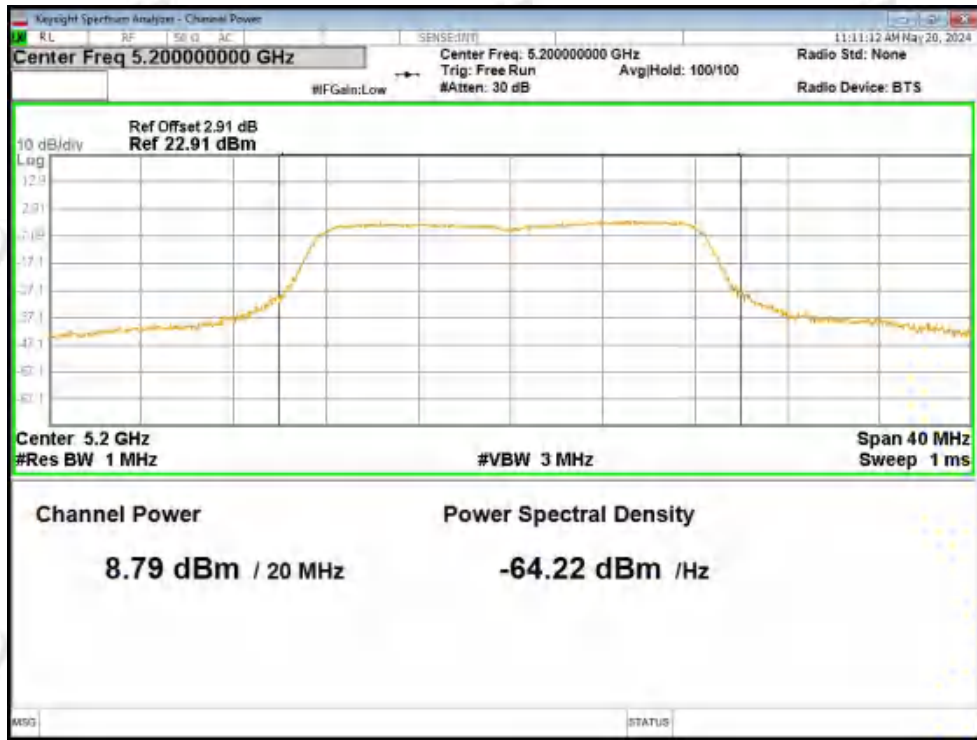


Test Graphs

Power NVNT a 5180MHz Ant1

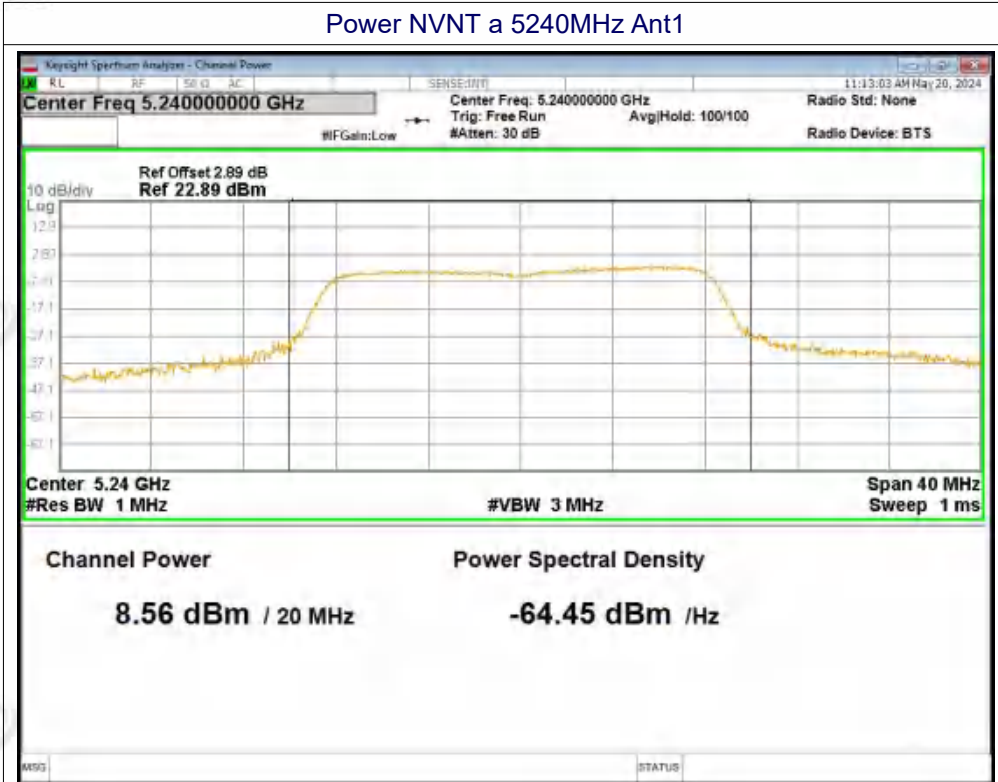


Power NVNT a 5200MHz Ant1

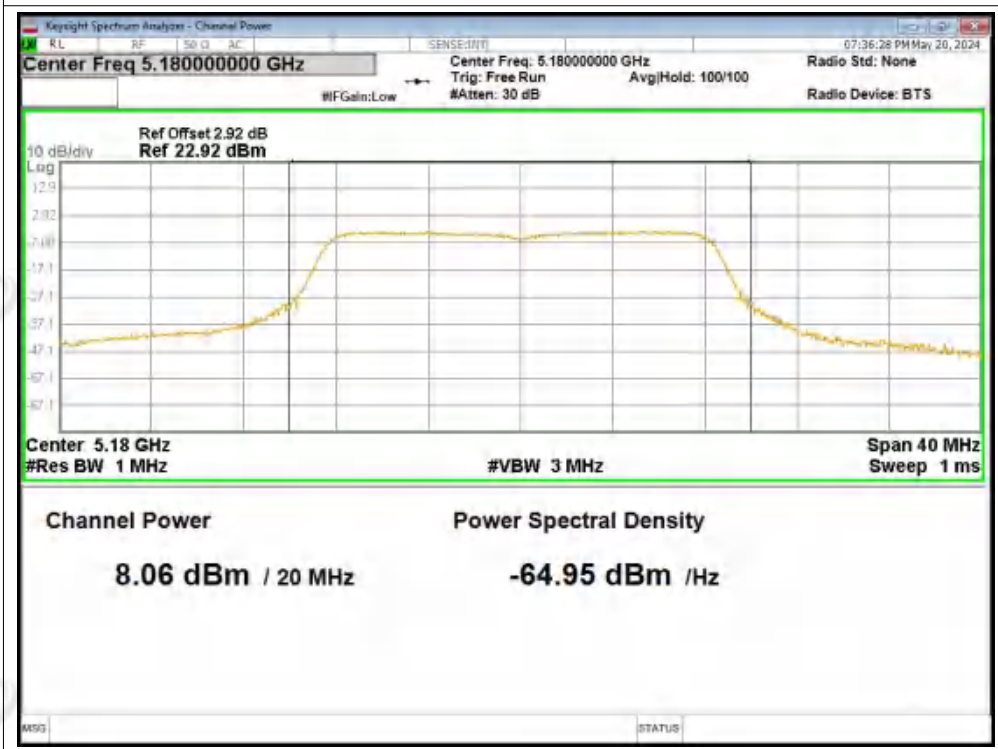




Power NVNT a 5240MHz Ant1

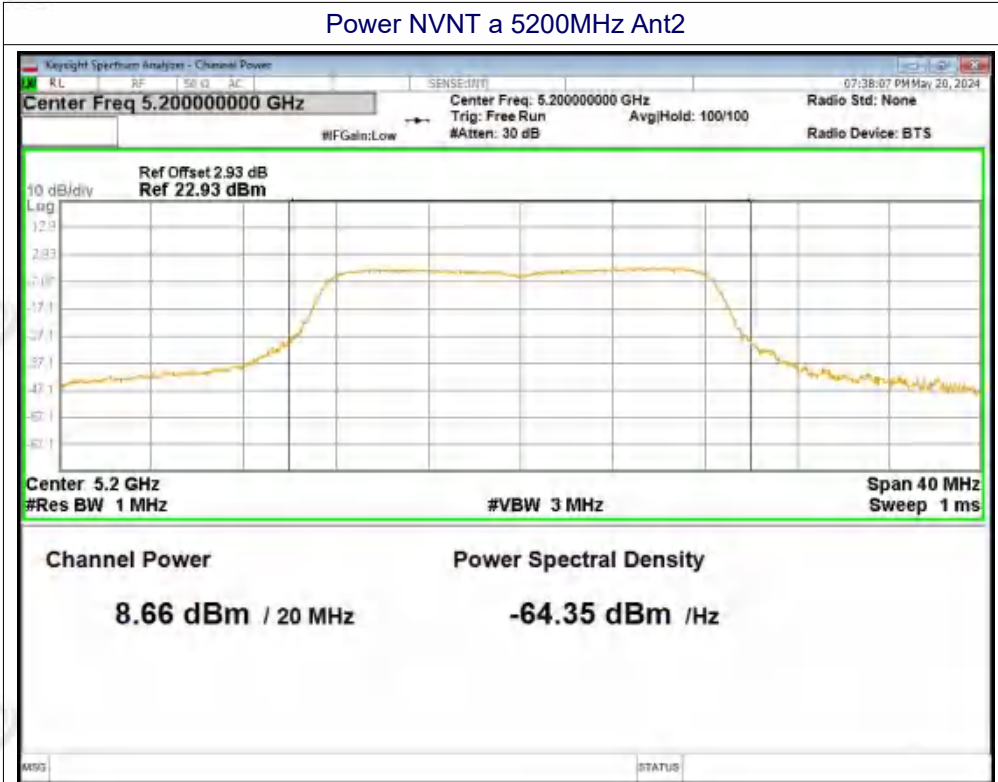


Power NVNT a 5180MHz Ant2

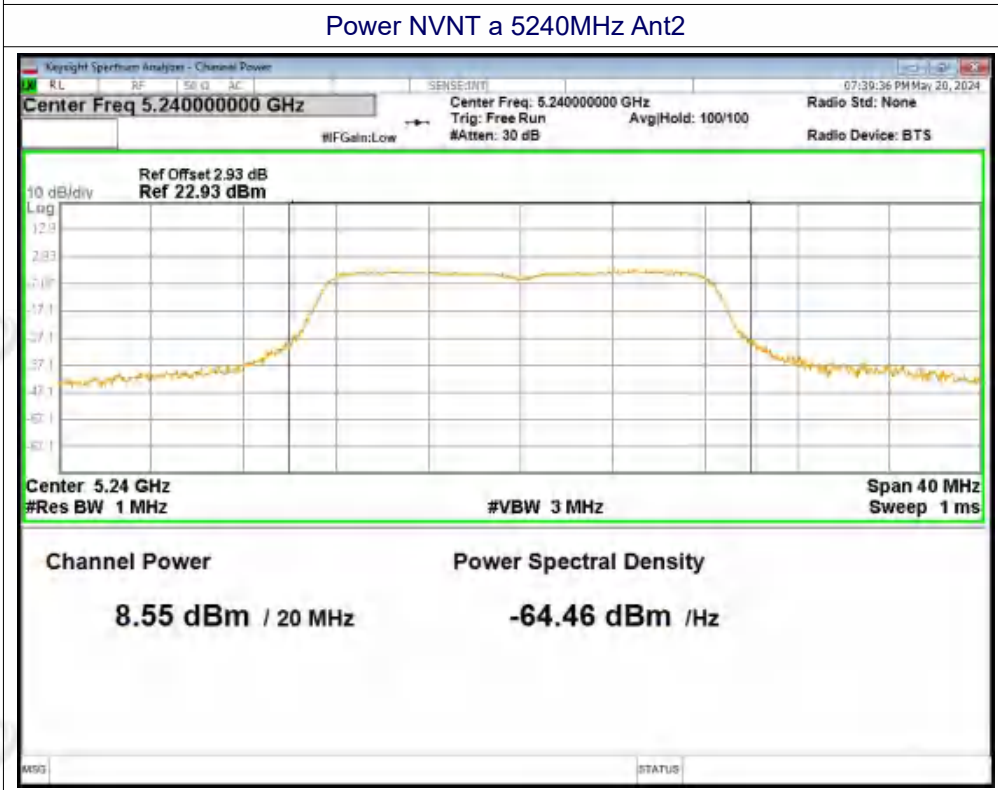




Power NVNT a 5200MHz Ant2

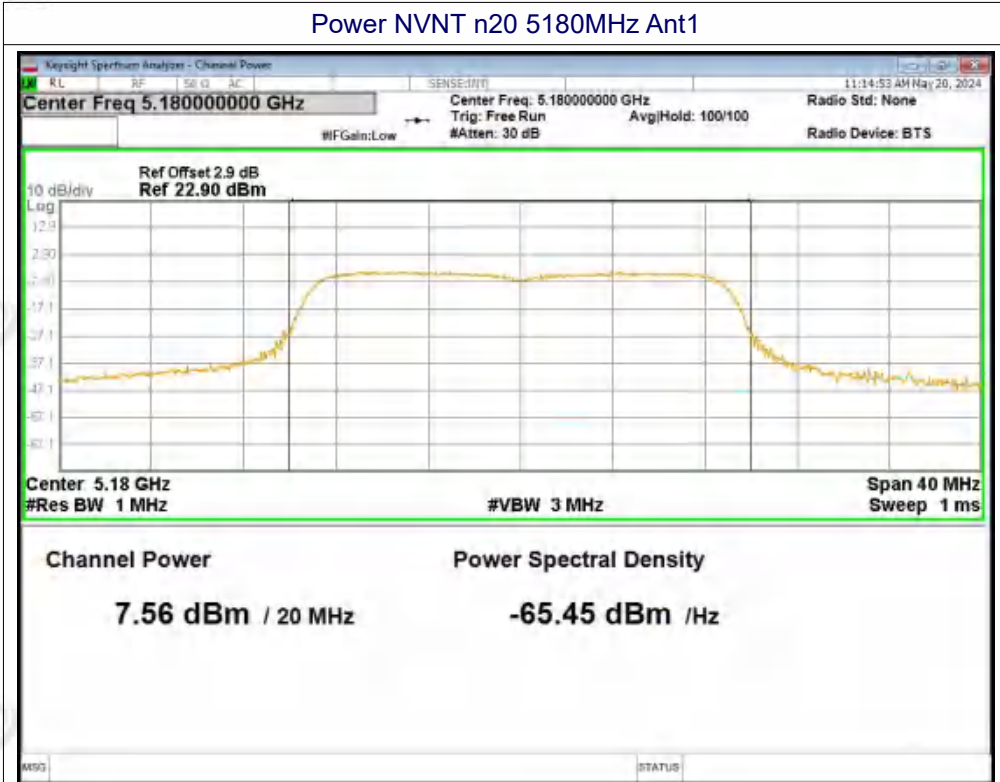


Power NVNT a 5240MHz Ant2

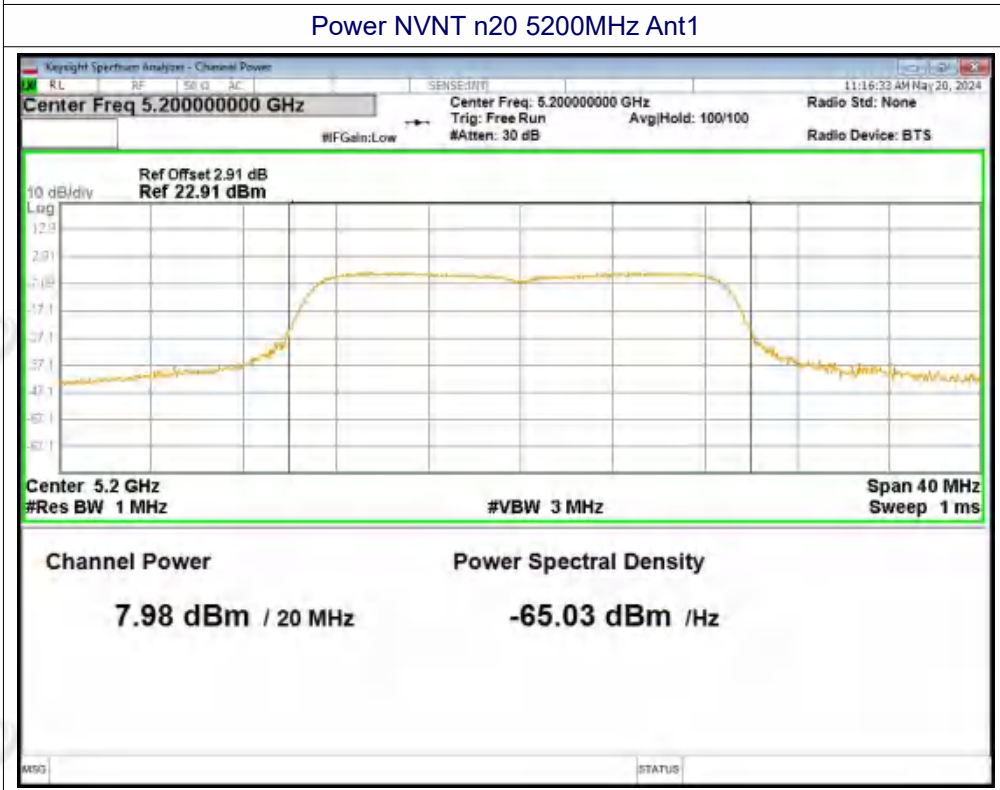




Power NVNT n20 5180MHz Ant1

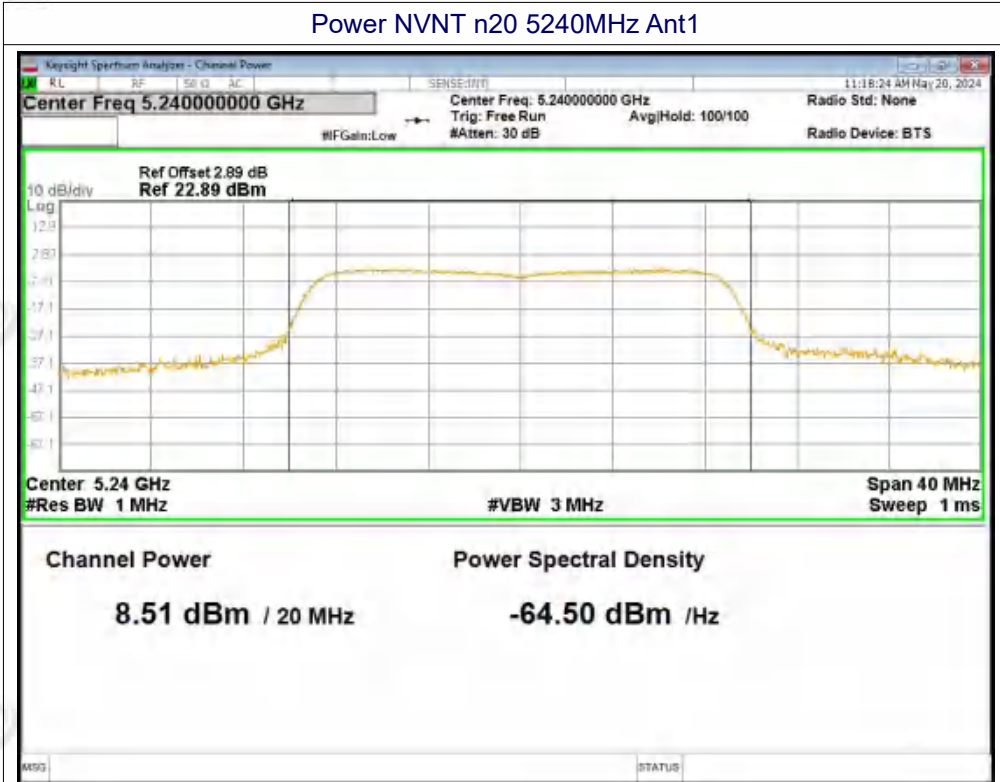


Power NVNT n20 5200MHz Ant1

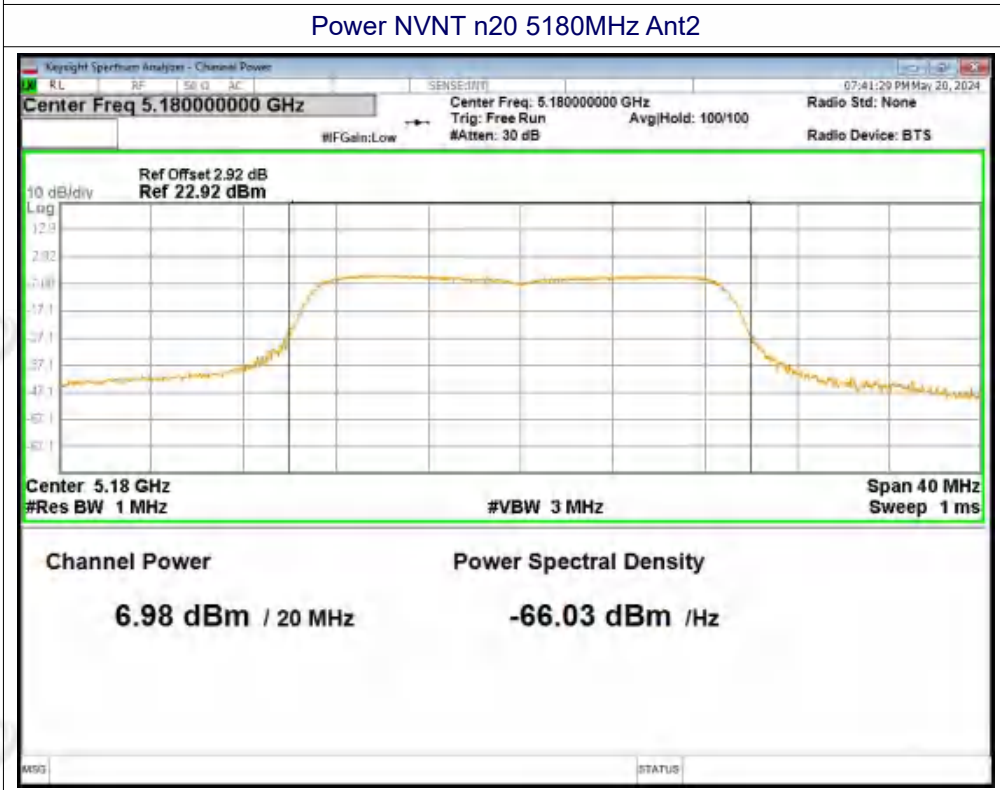




Power NVNT n20 5240MHz Ant1

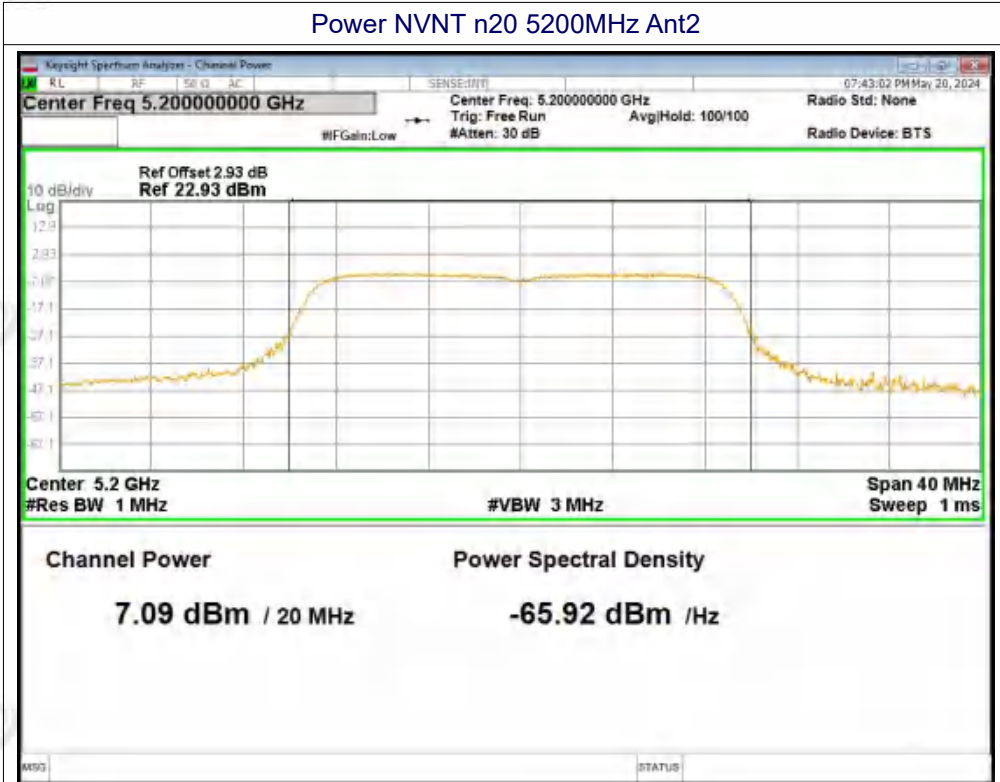


Power NVNT n20 5180MHz Ant2

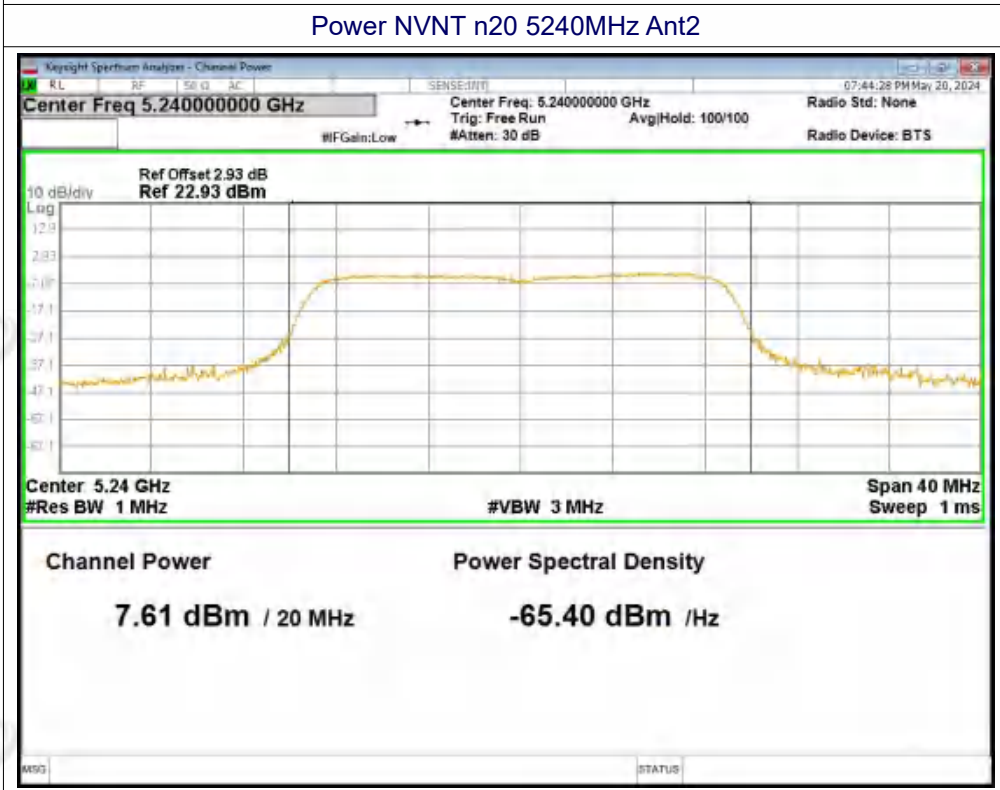




Power NVNT n20 5200MHz Ant2

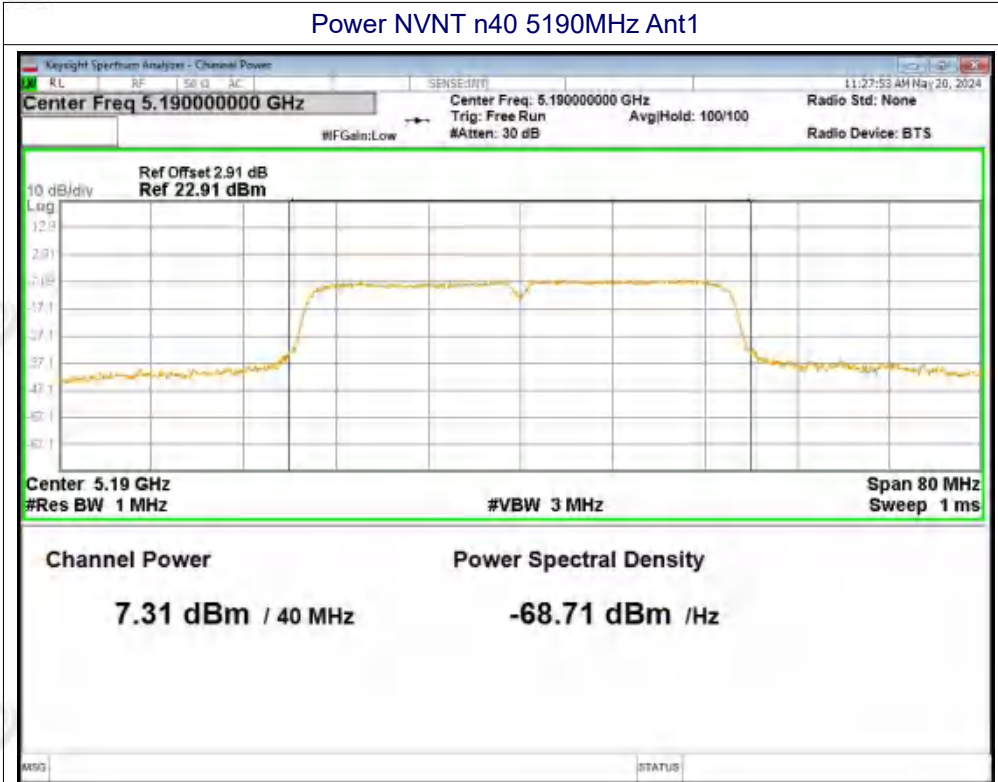


Power NVNT n20 5240MHz Ant2

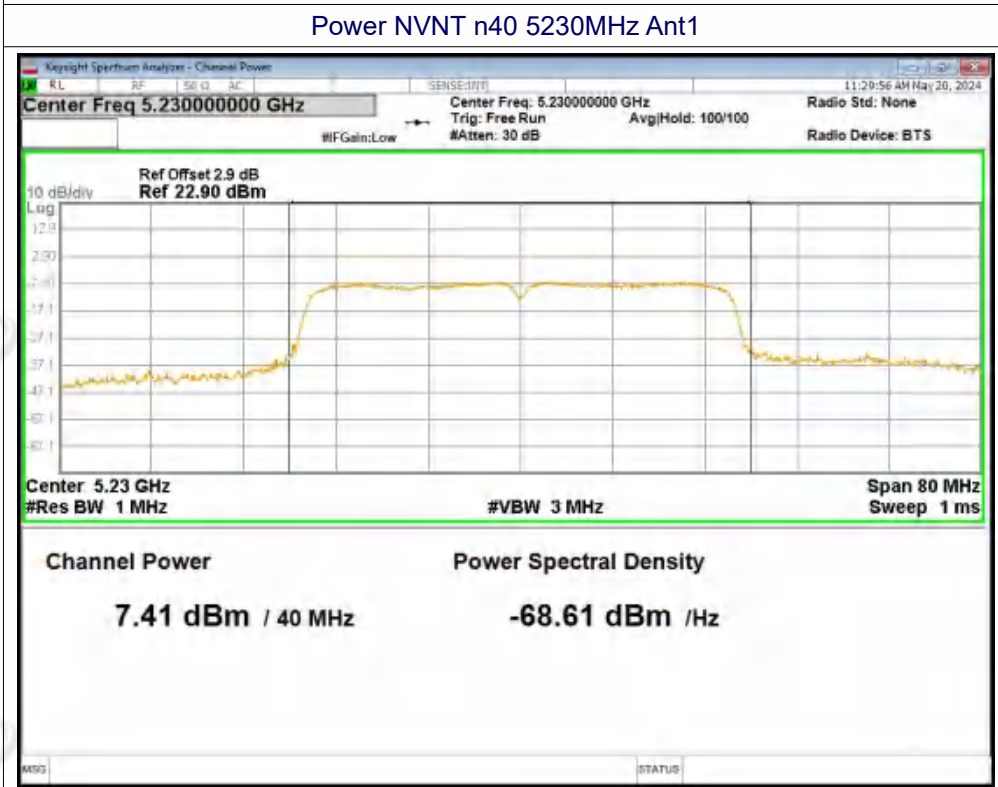




Power NVNT n40 5190MHz Ant1



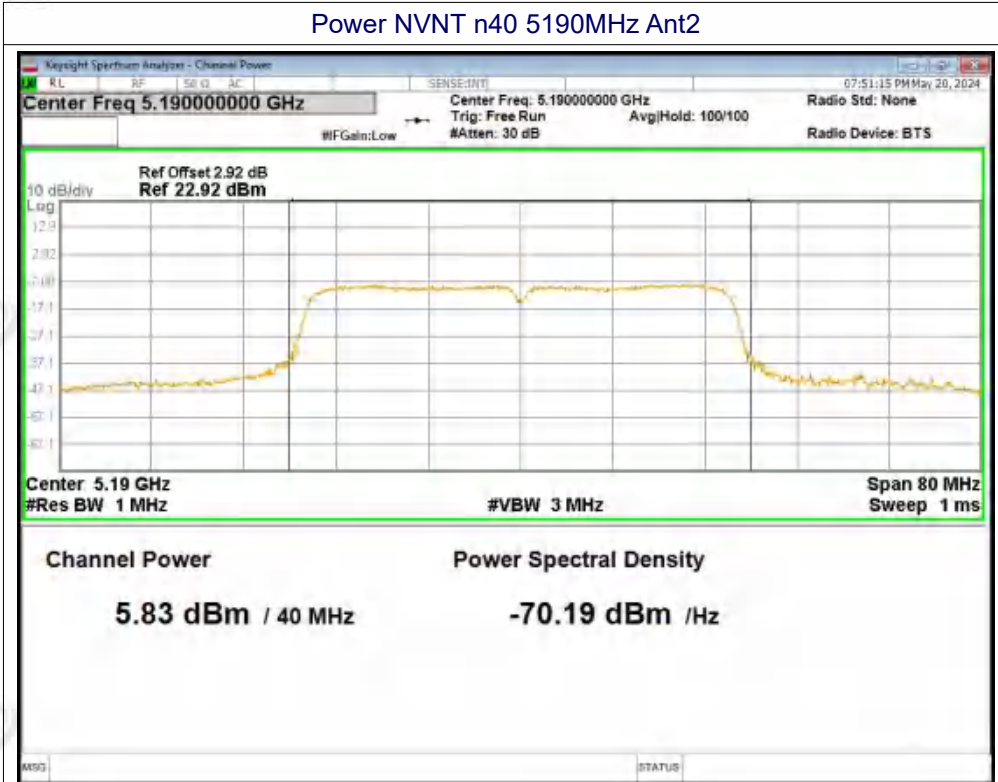
Power NVNT n40 5230MHz Ant1



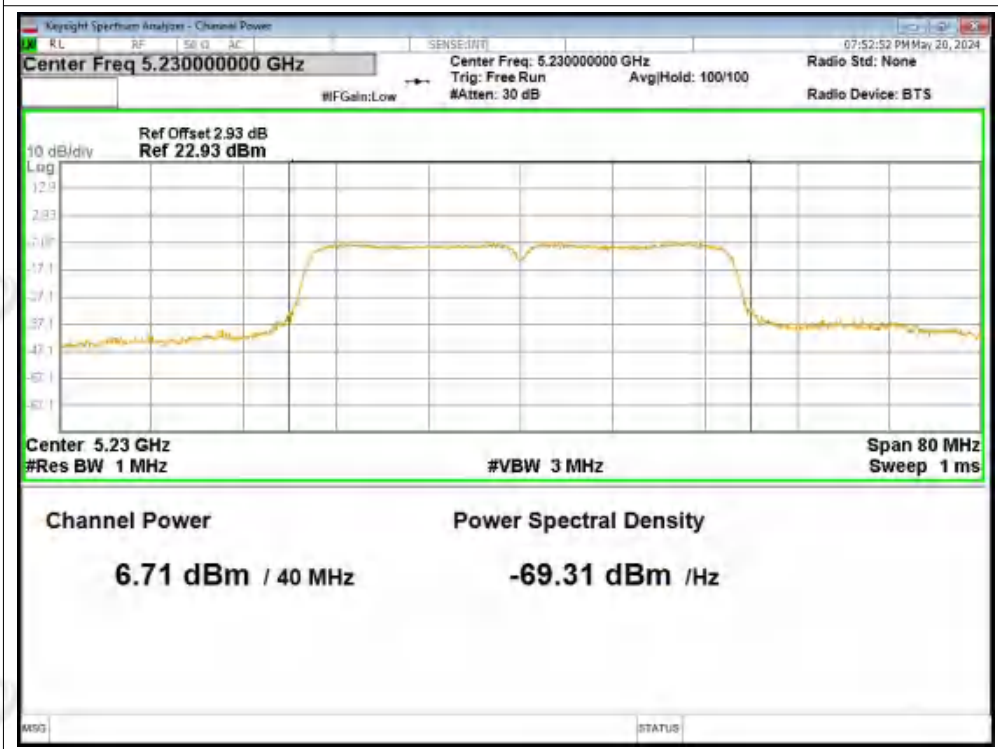




Power NVNT n40 5190MHz Ant2

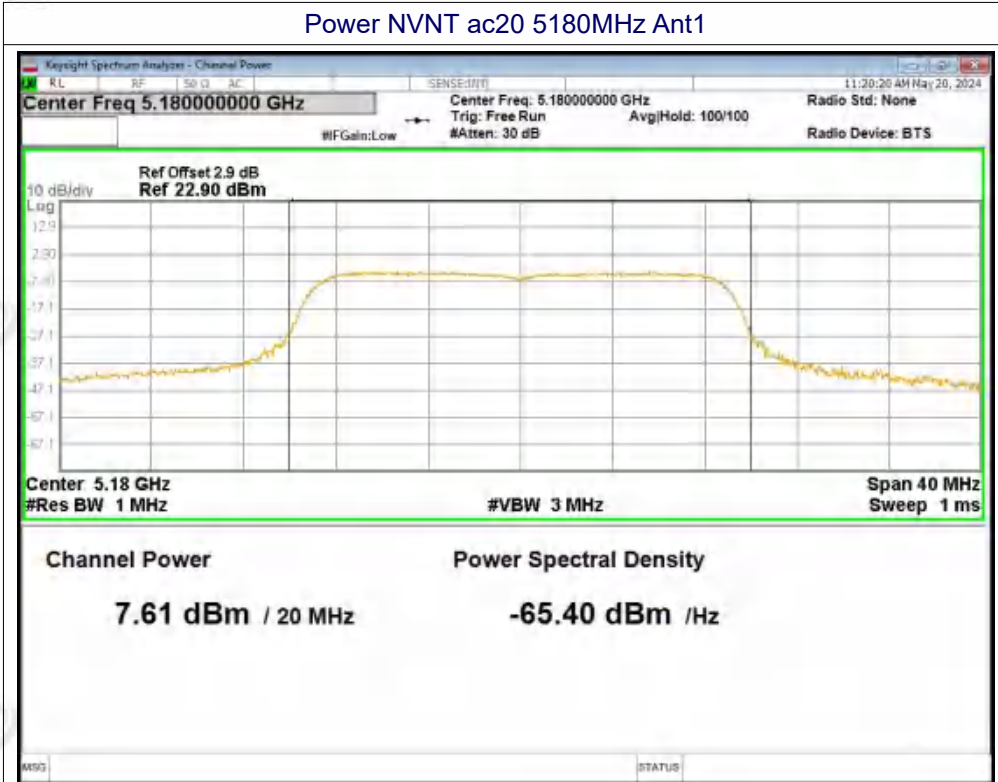


Power NVNT n40 5230MHz Ant2

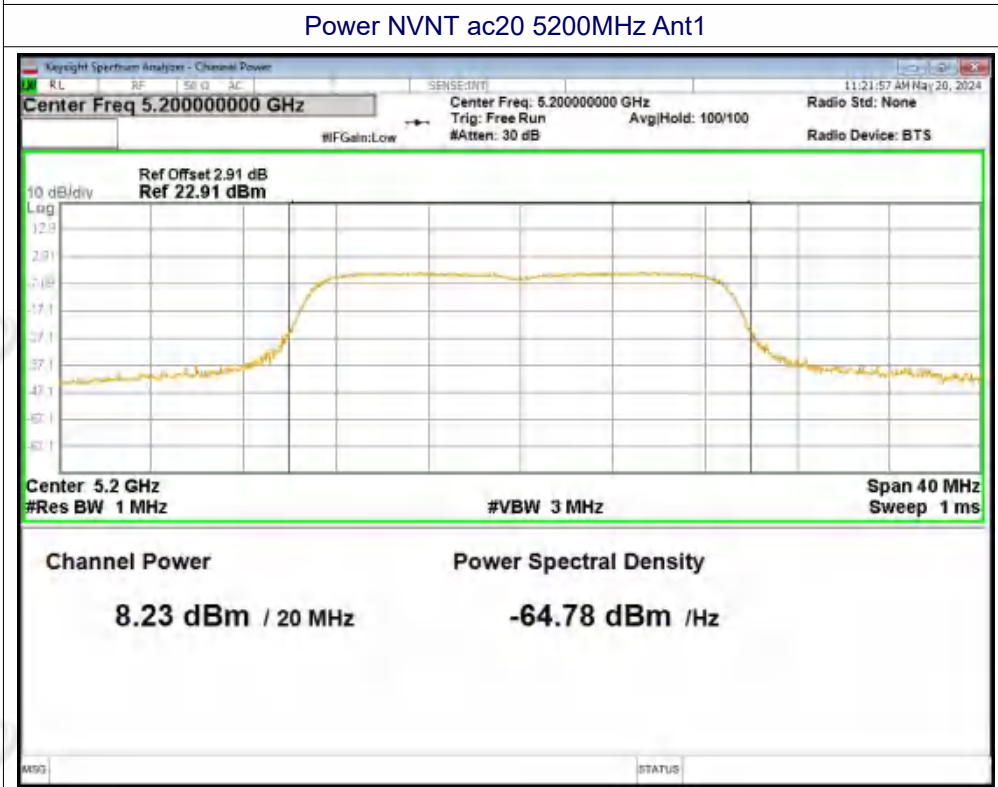




Power NVNT ac20 5180MHz Ant1

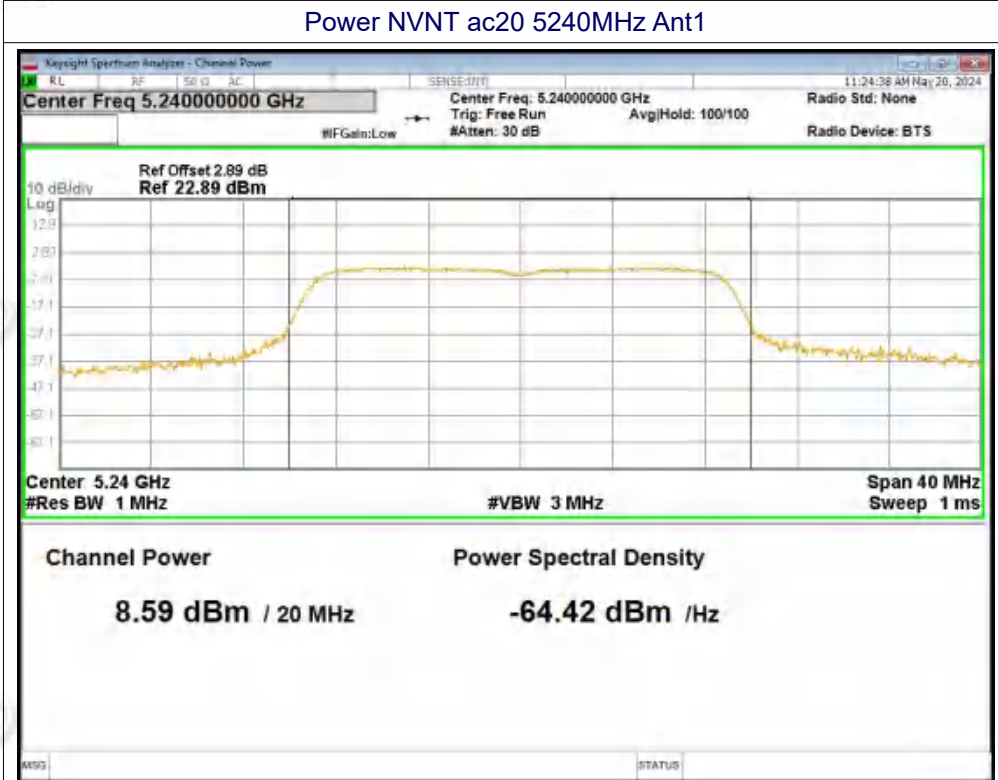


Power NVNT ac20 5200MHz Ant1





Power NVNT ac20 5240MHz Ant1

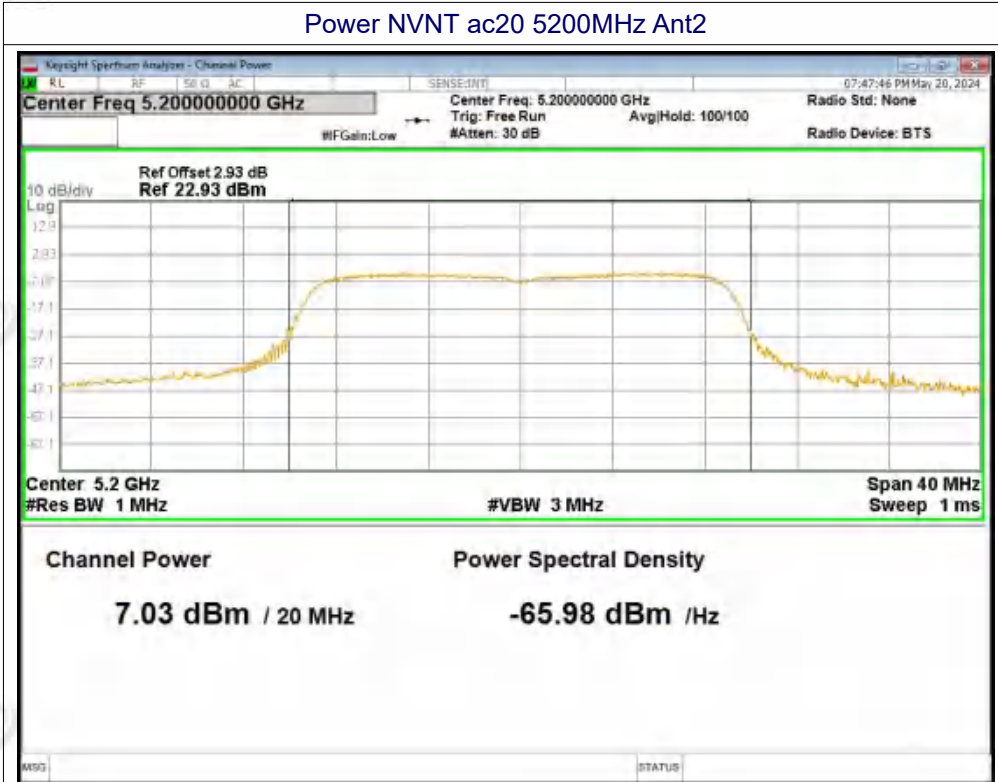


Power NVNT ac20 5180MHz Ant2

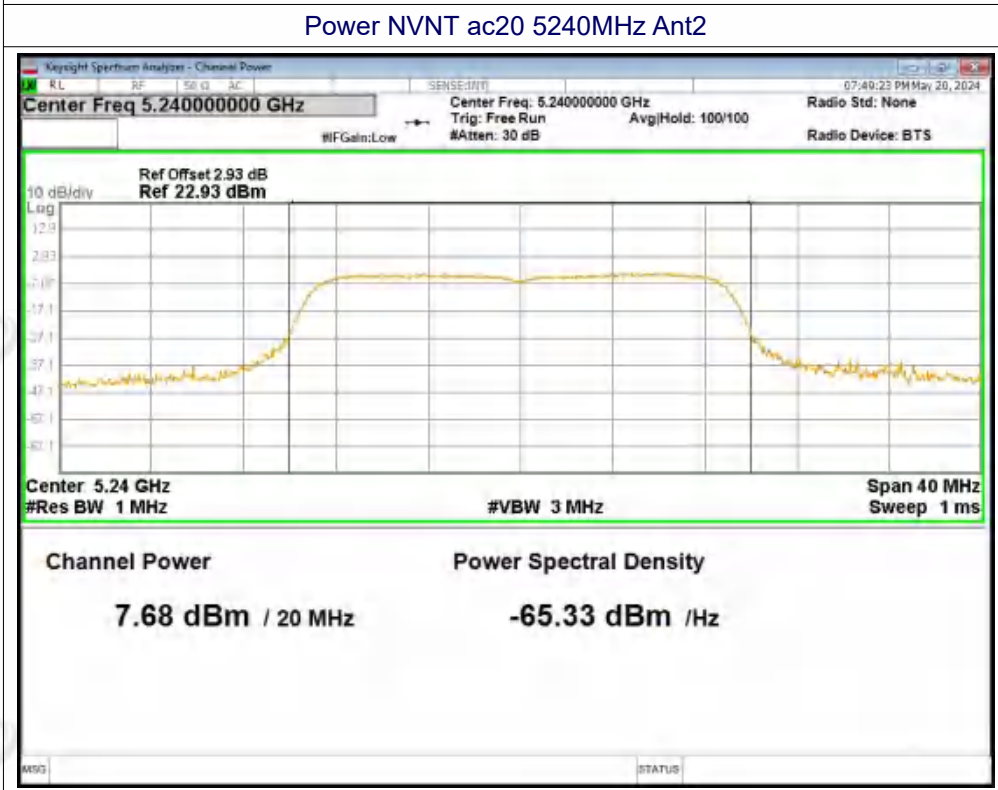




Power NVNT ac20 5200MHz Ant2

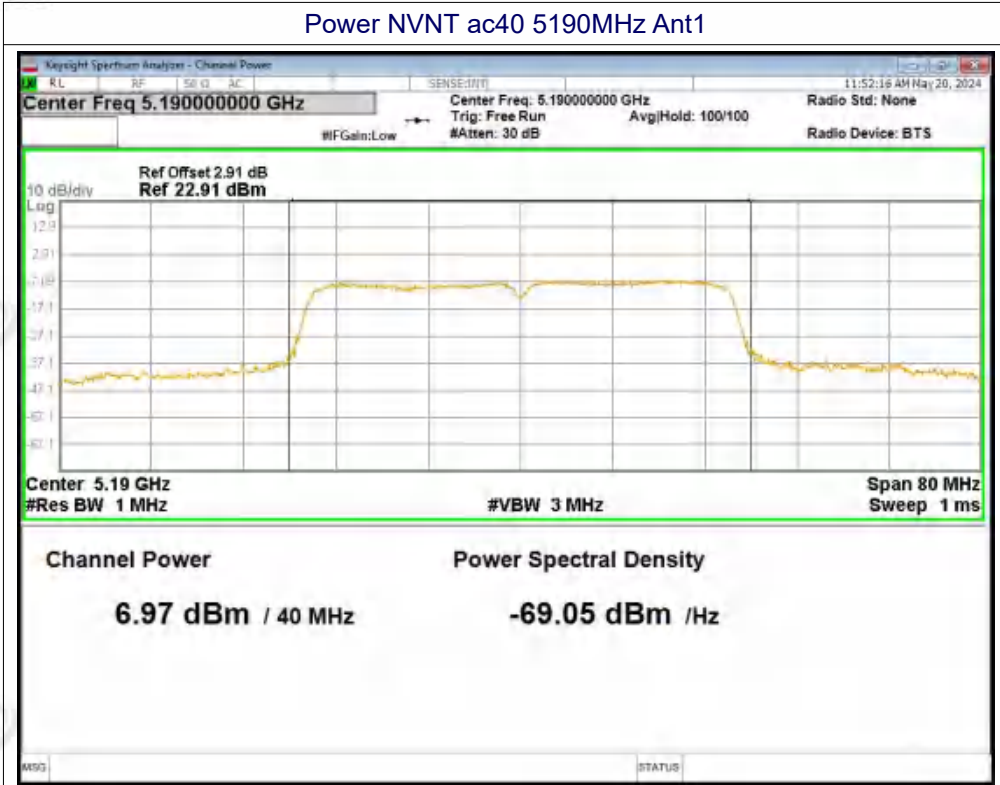


Power NVNT ac20 5240MHz Ant2

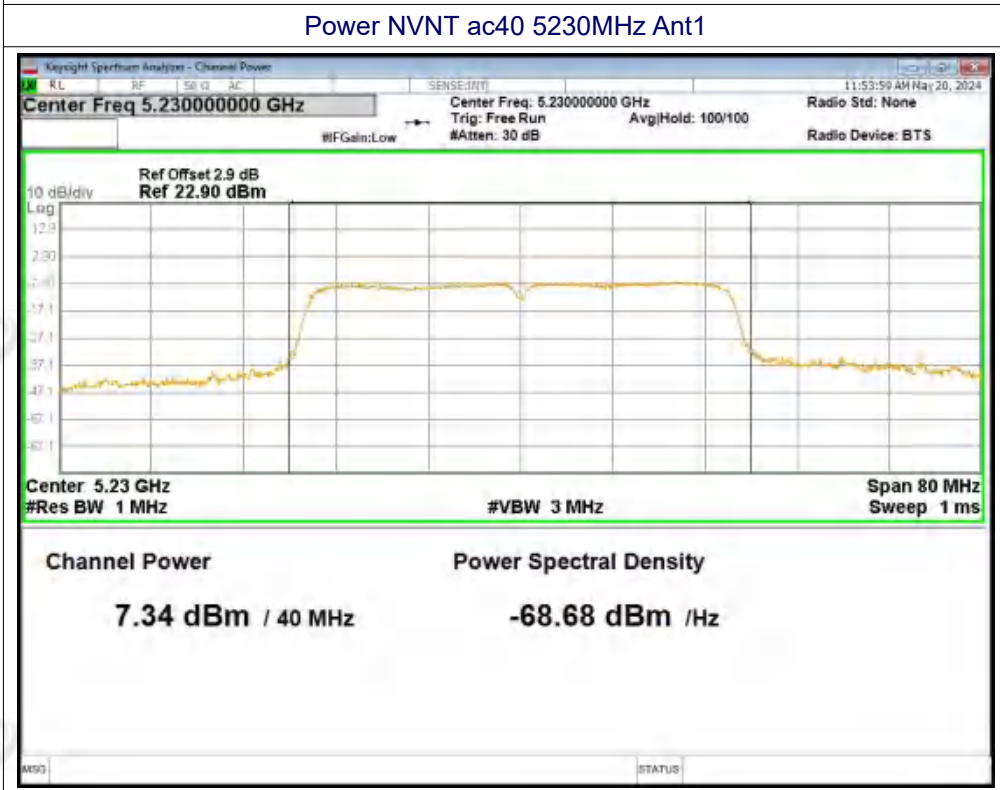




Power NVNT ac40 5190MHz Ant1

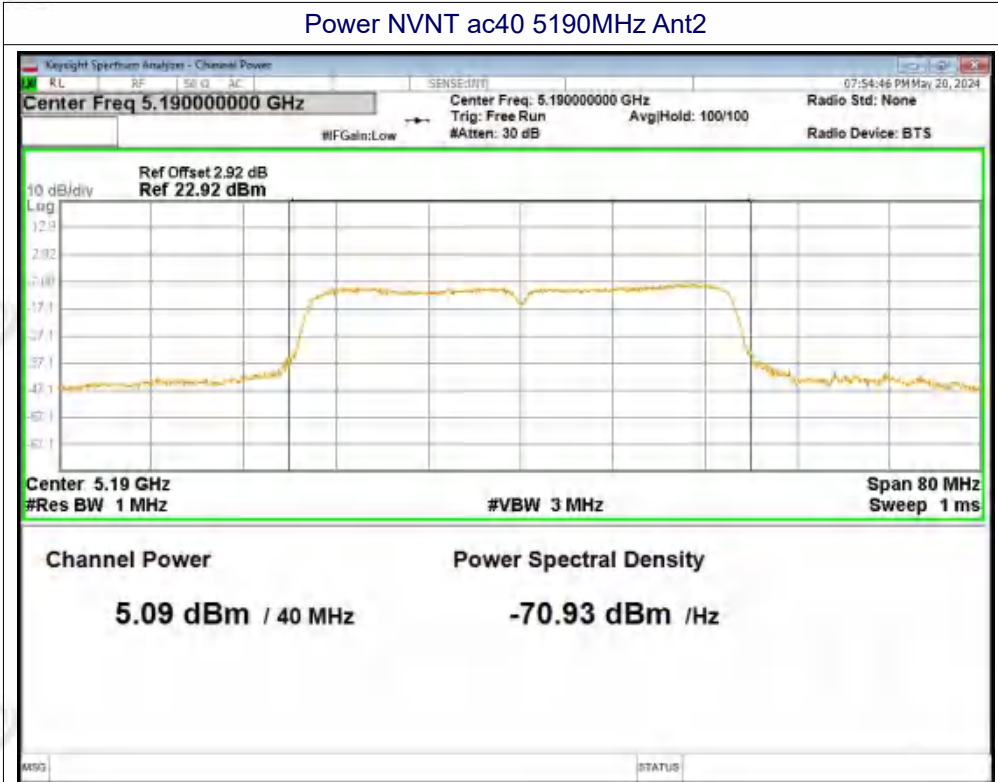


Power NVNT ac40 5230MHz Ant1

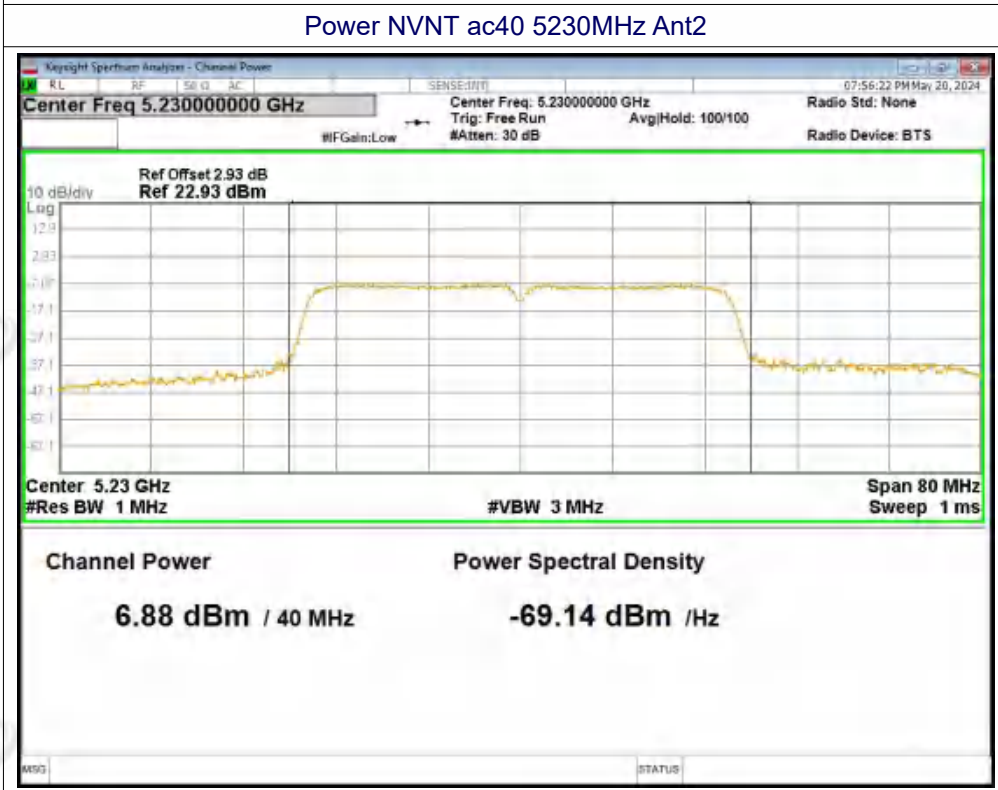




Power NVNT ac40 5190MHz Ant2

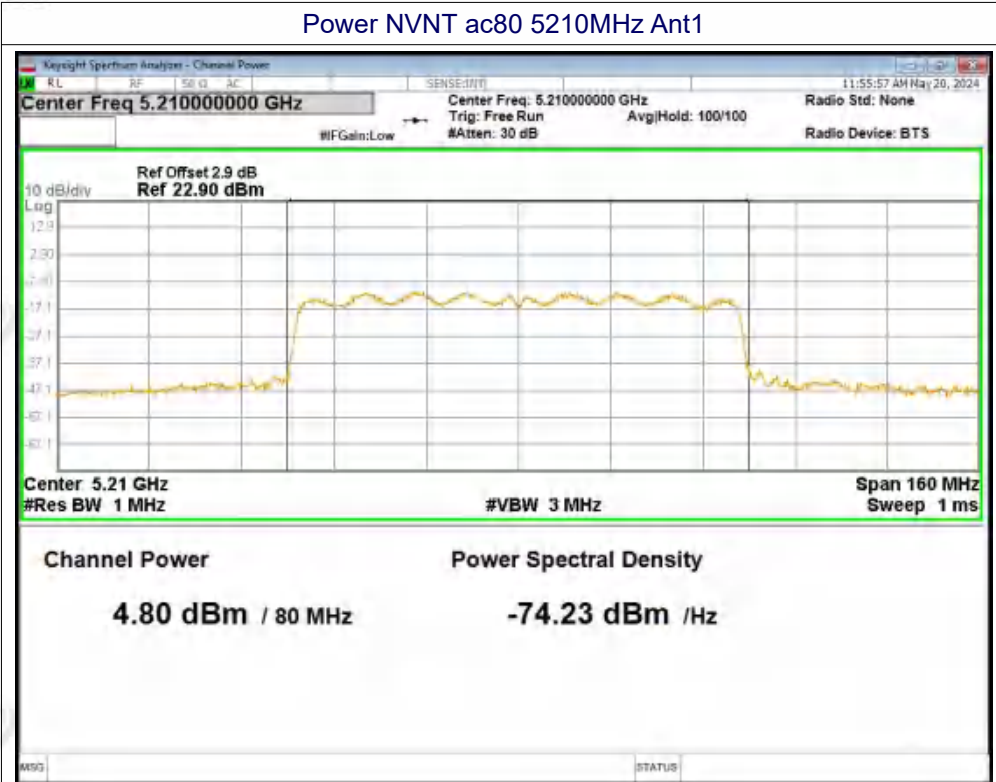


Power NVNT ac40 5230MHz Ant2

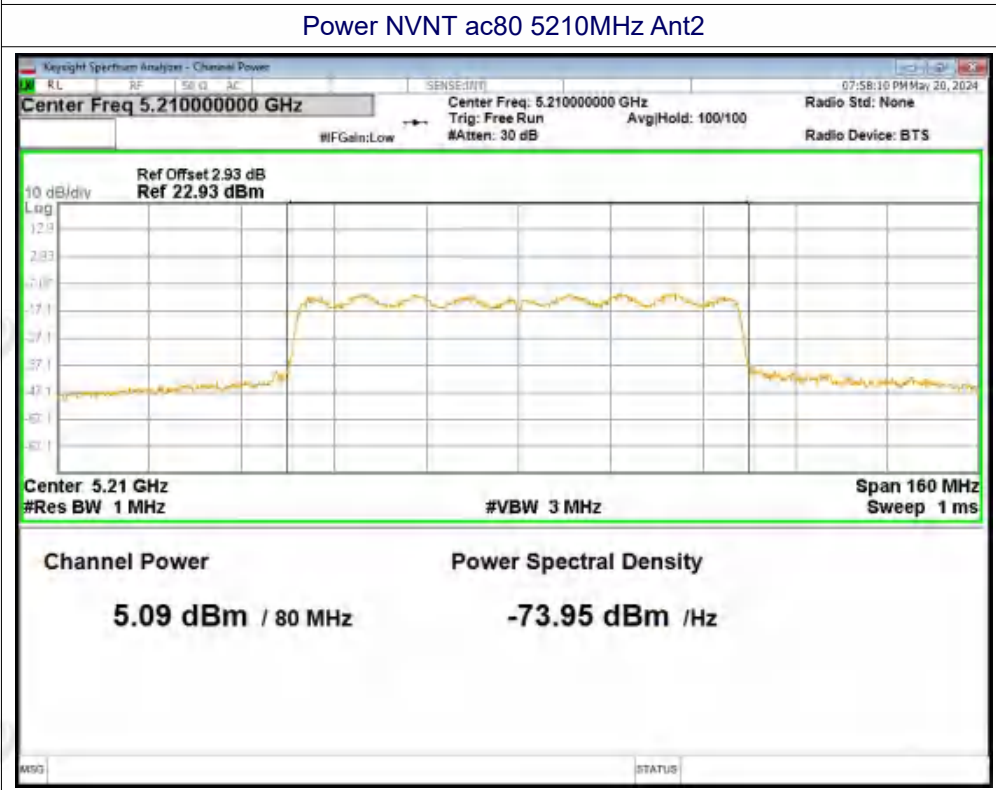




Power NVNT ac80 5210MHz Ant1



Power NVNT ac80 5210MHz Ant2





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## A3. -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	21.22	0.5	Pass
NVNT	a	5200	Ant1	21.364	0.5	Pass
NVNT	a	5240	Ant1	25.211	0.5	Pass
NVNT	a	5180	Ant2	20.633	0.5	Pass
NVNT	a	5200	Ant2	20.529	0.5	Pass
NVNT	a	5240	Ant2	21.192	0.5	Pass
NVNT	n20	5180	Ant1	20.952	0.5	Pass
NVNT	n20	5200	Ant1	21.355	0.5	Pass
NVNT	n20	5240	Ant1	28.767	0.5	Pass
NVNT	n20	5180	Ant2	20.888	0.5	Pass
NVNT	n20	5200	Ant2	20.851	0.5	Pass
NVNT	n20	5240	Ant2	21.284	0.5	Pass
NVNT	n40	5190	Ant1	50.131	0.5	Pass
NVNT	n40	5230	Ant1	50.215	0.5	Pass
NVNT	n40	5190	Ant2	41.144	0.5	Pass
NVNT	n40	5230	Ant2	50.408	0.5	Pass
NVNT	ac20	5180	Ant1	21.333	0.5	Pass
NVNT	ac20	5200	Ant1	21.545	0.5	Pass
NVNT	ac20	5240	Ant1	27.203	0.5	Pass
NVNT	ac20	5180	Ant2	21.251	0.5	Pass
NVNT	ac20	5200	Ant2	21.183	0.5	Pass
NVNT	ac20	5240	Ant2	23.108	0.5	Pass
NVNT	ac40	5190	Ant1	41.715	0.5	Pass
NVNT	ac40	5230	Ant1	49.118	0.5	Pass
NVNT	ac40	5190	Ant2	40.414	0.5	Pass
NVNT	ac40	5230	Ant2	49.847	0.5	Pass
NVNT	ac80	5210	Ant1	79.06	0.5	Pass
NVNT	ac80	5210	Ant2	82.052	0.5	Pass



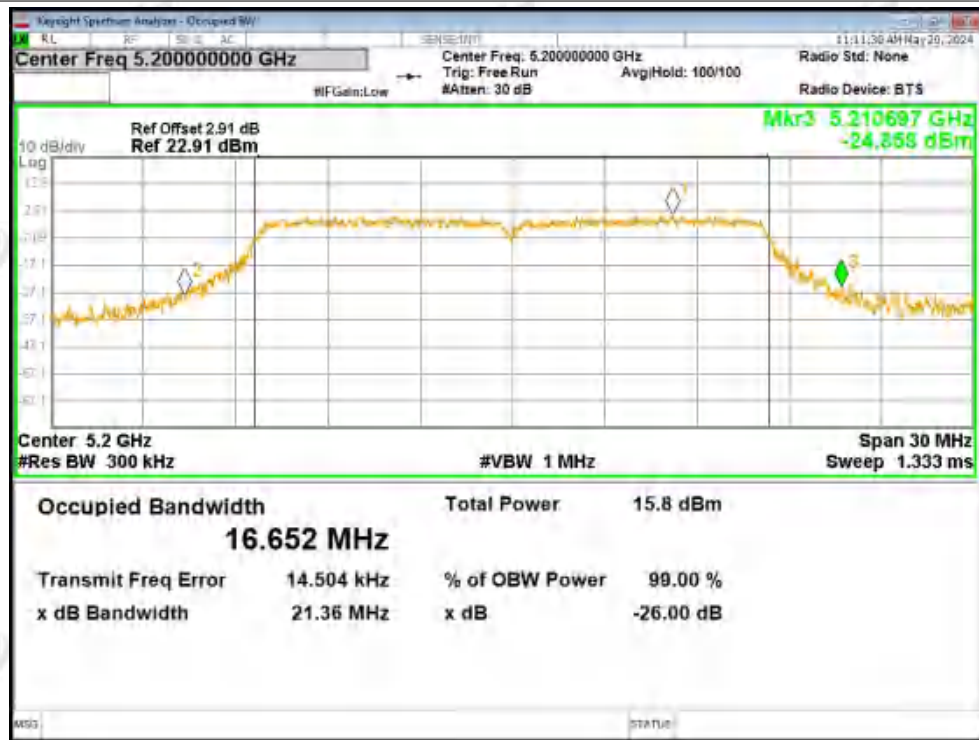


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1

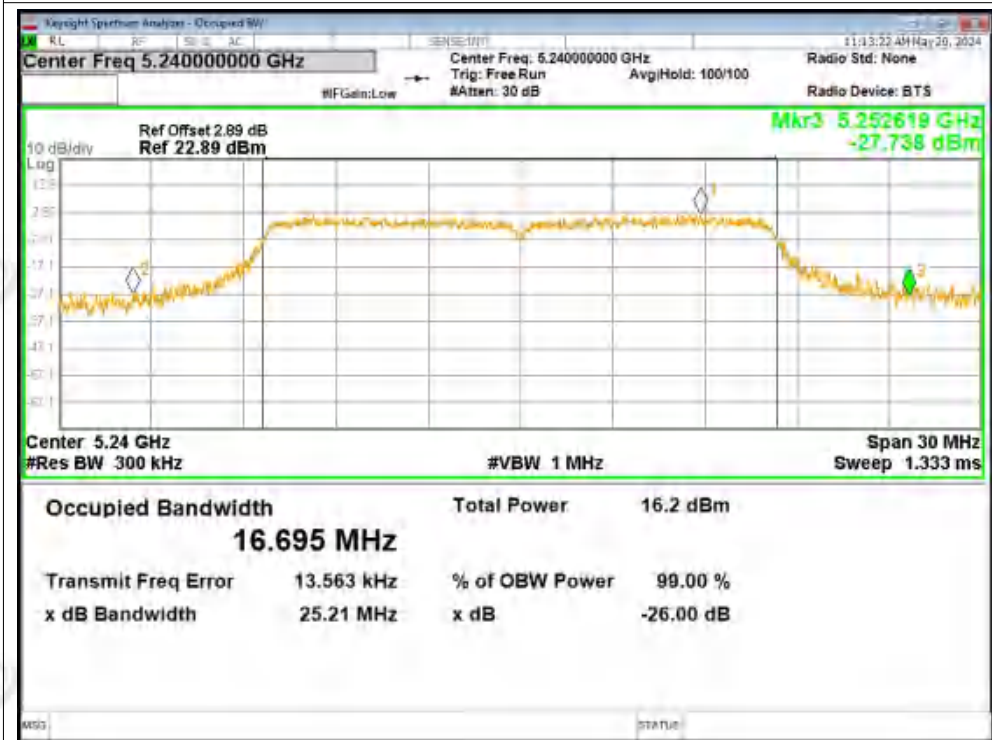


-26dB Bandwidth NVNT a 5200MHz Ant1





-26dB Bandwidth NVNT a 5240MHz Ant1



-26dB Bandwidth NVNT a 5180MHz Ant2

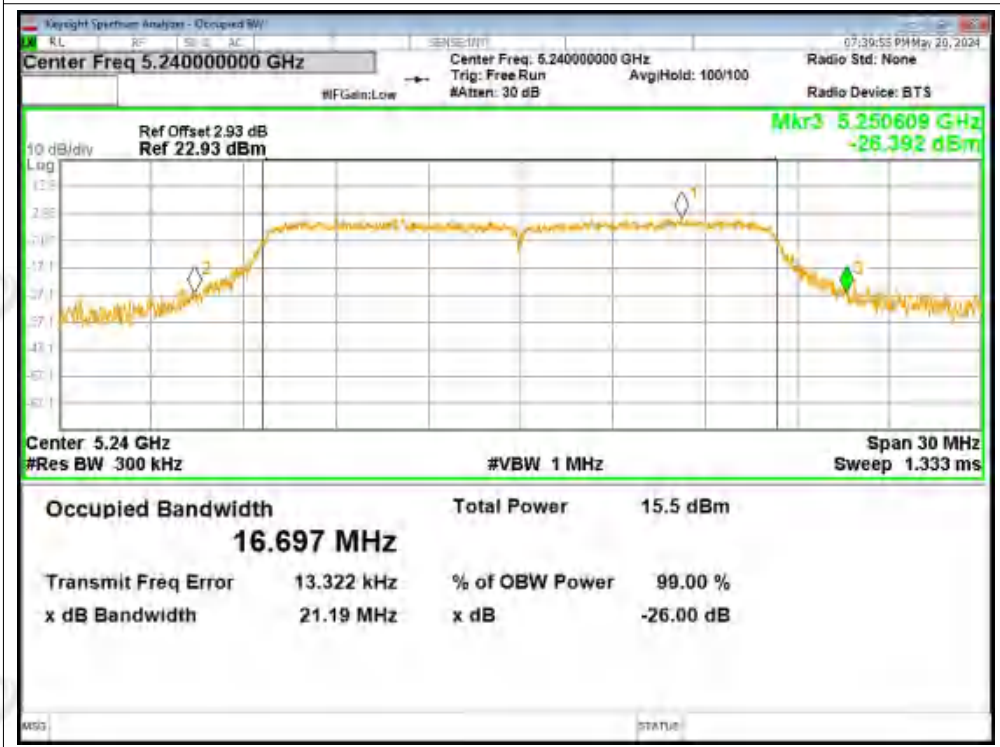




-26dB Bandwidth NVNT a 5200MHz Ant2



-26dB Bandwidth NVNT a 5240MHz Ant2





-26dB Bandwidth NVNT n20 5180MHz Ant1

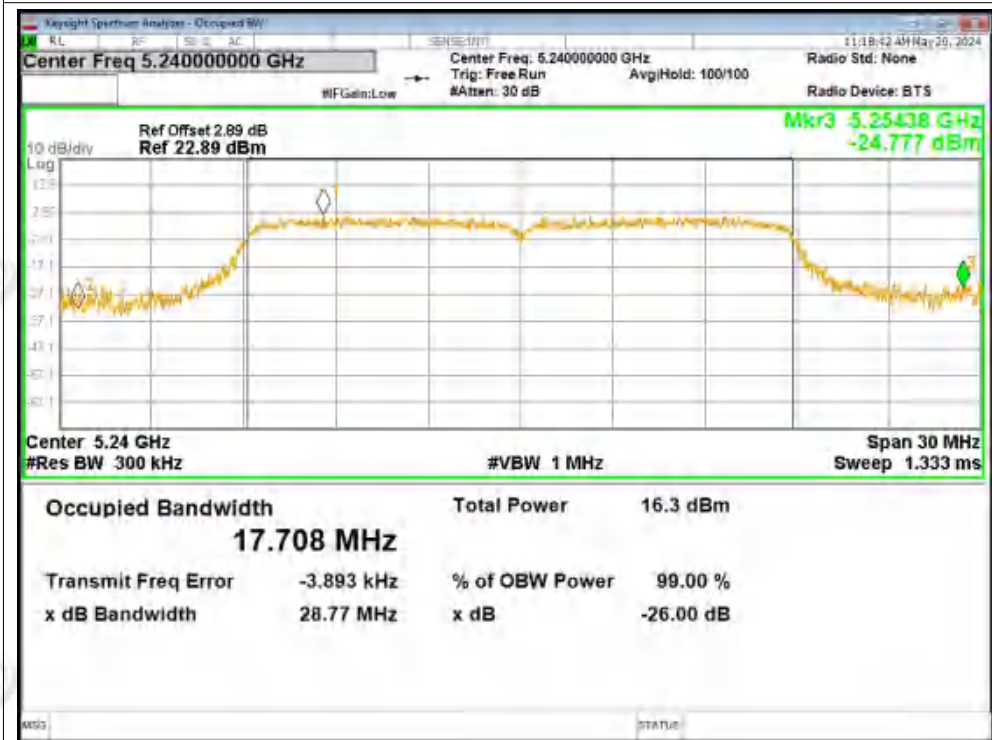


-26dB Bandwidth NVNT n20 5200MHz Ant1





-26dB Bandwidth NVNT n20 5240MHz Ant1



-26dB Bandwidth NVNT n20 5180MHz Ant2





-26dB Bandwidth NVNT n20 5200MHz Ant2

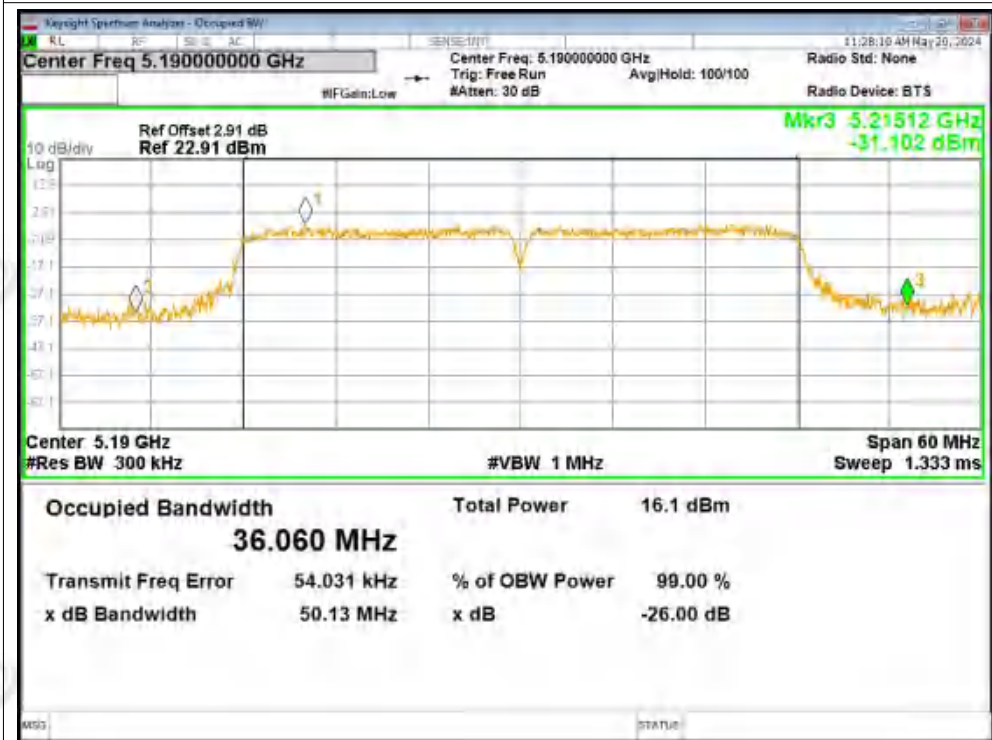


-26dB Bandwidth NVNT n20 5240MHz Ant2

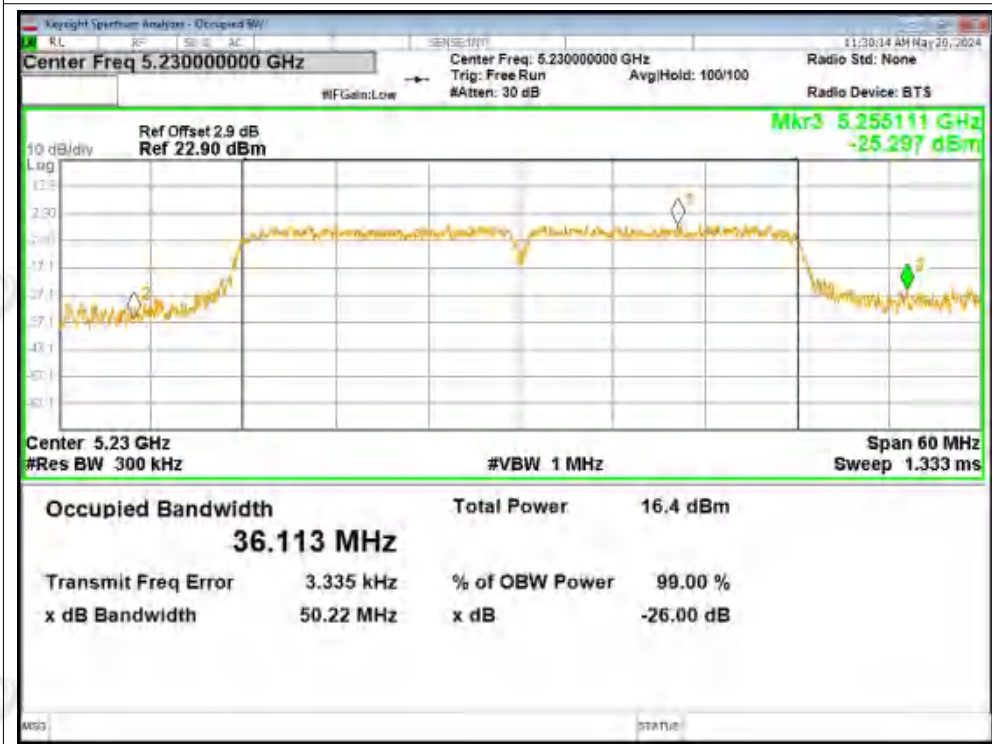




-26dB Bandwidth NVNT n40 5190MHz Ant1

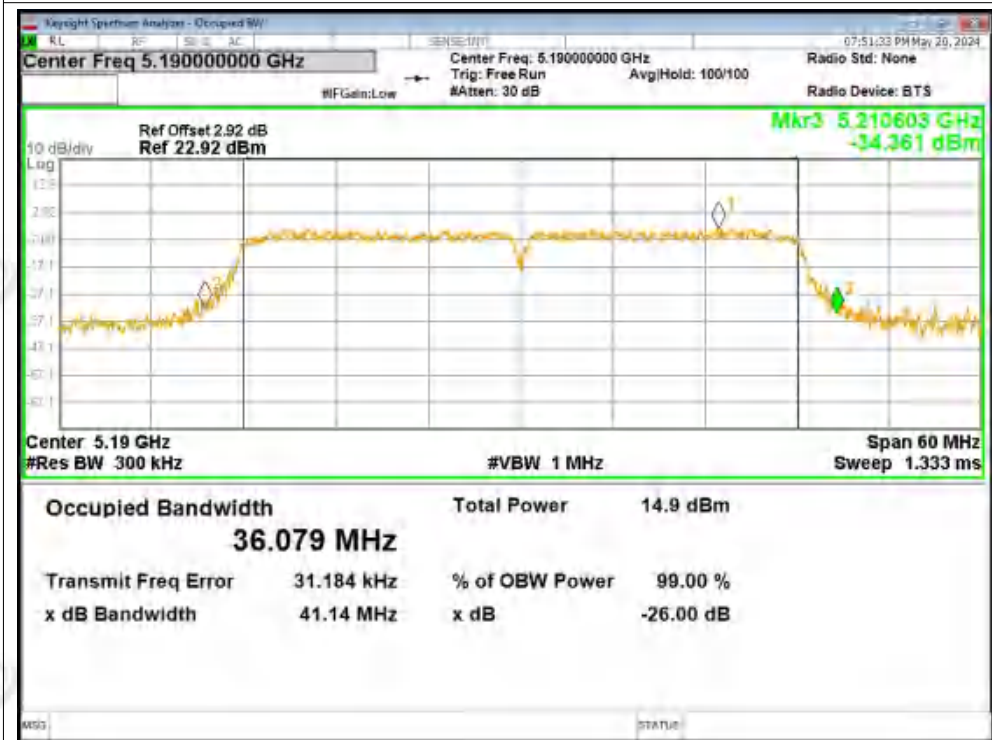


-26dB Bandwidth NVNT n40 5230MHz Ant1





-26dB Bandwidth NVNT n40 5190MHz Ant2



-26dB Bandwidth NVNT n40 5230MHz Ant2







-26dB Bandwidth NVNT ac20 5180MHz Ant1

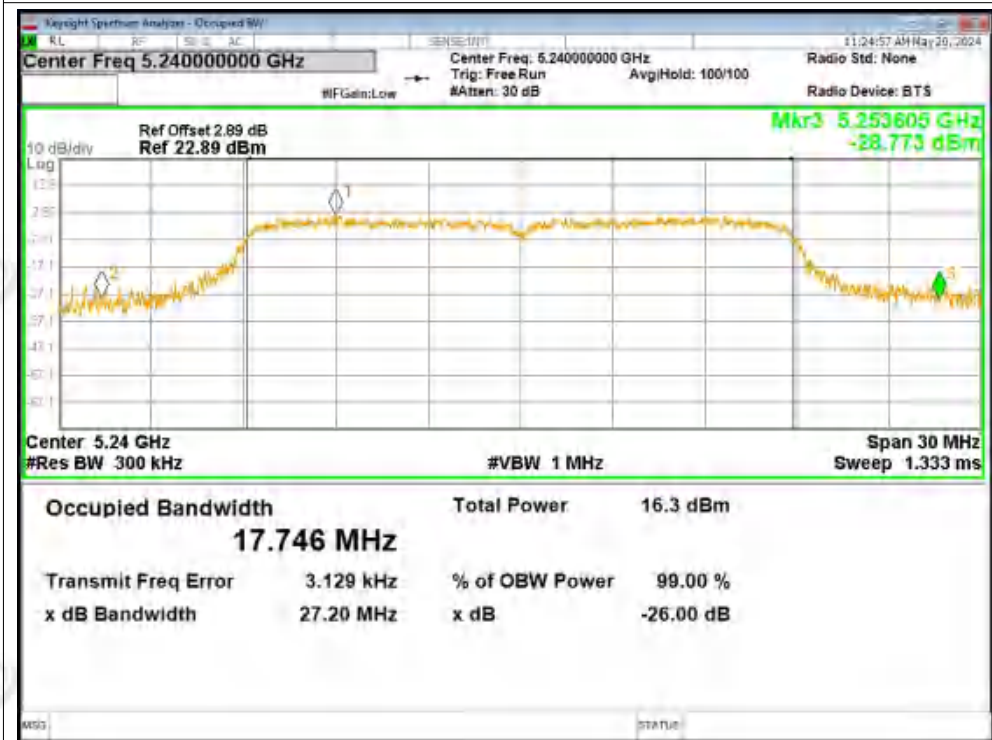


-26dB Bandwidth NVNT ac20 5200MHz Ant1





-26dB Bandwidth NVNT ac20 5240MHz Ant1

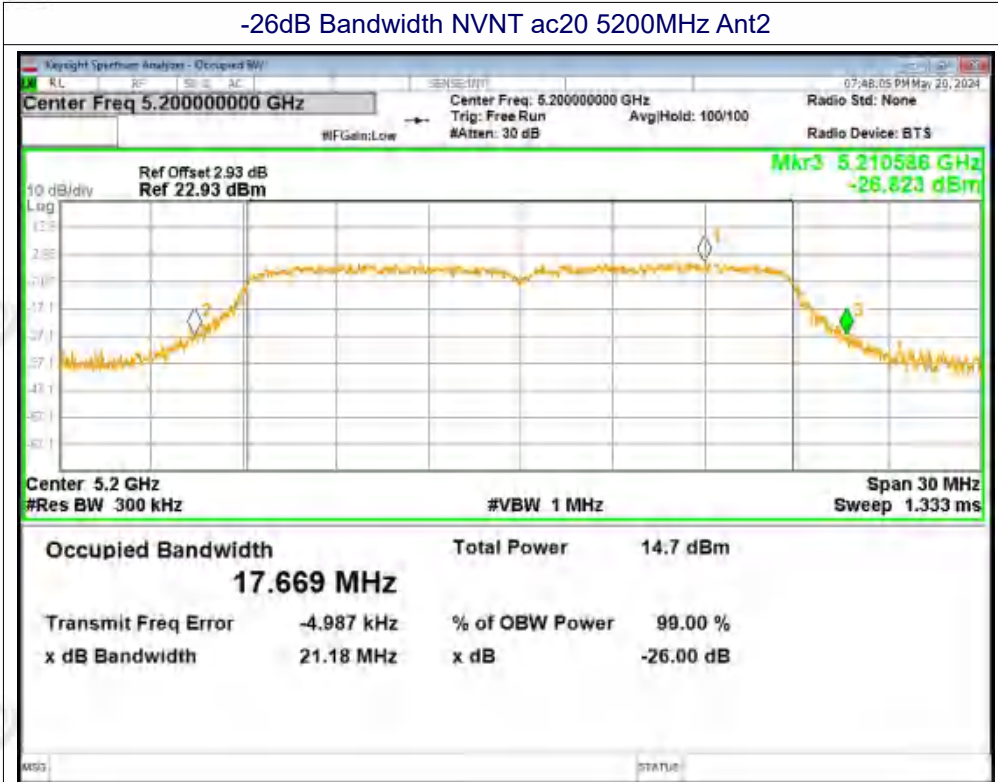


-26dB Bandwidth NVNT ac20 5180MHz Ant2

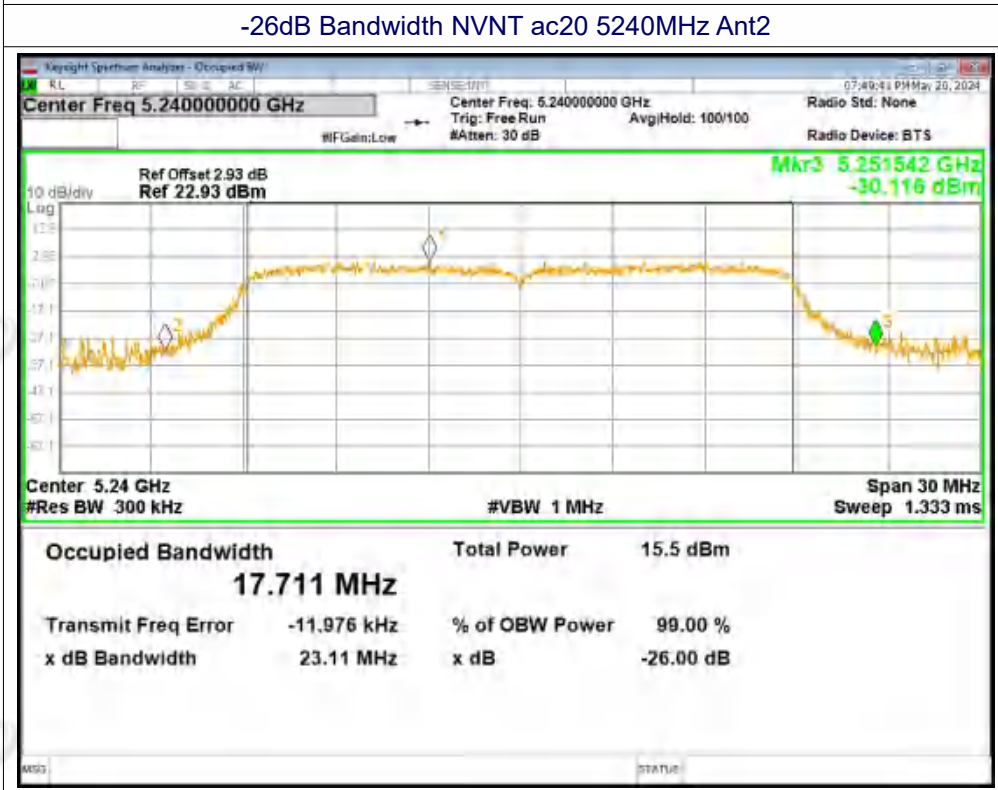




-26dB Bandwidth NVNT ac20 5200MHz Ant2



-26dB Bandwidth NVNT ac20 5240MHz Ant2

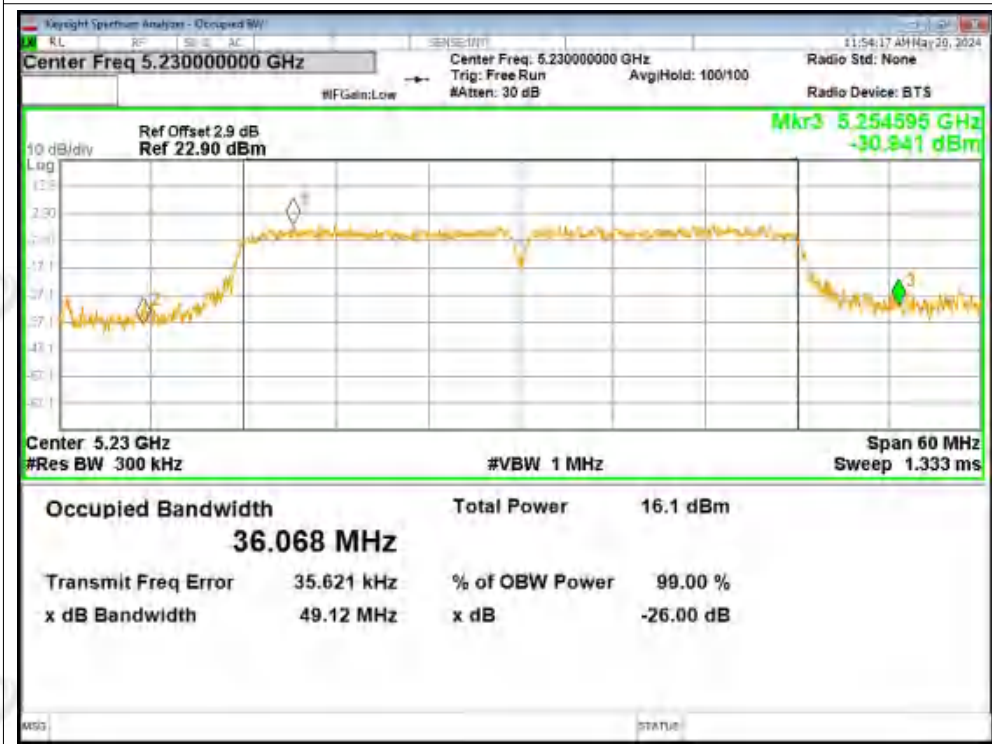




-26dB Bandwidth NVNT ac40 5190MHz Ant1

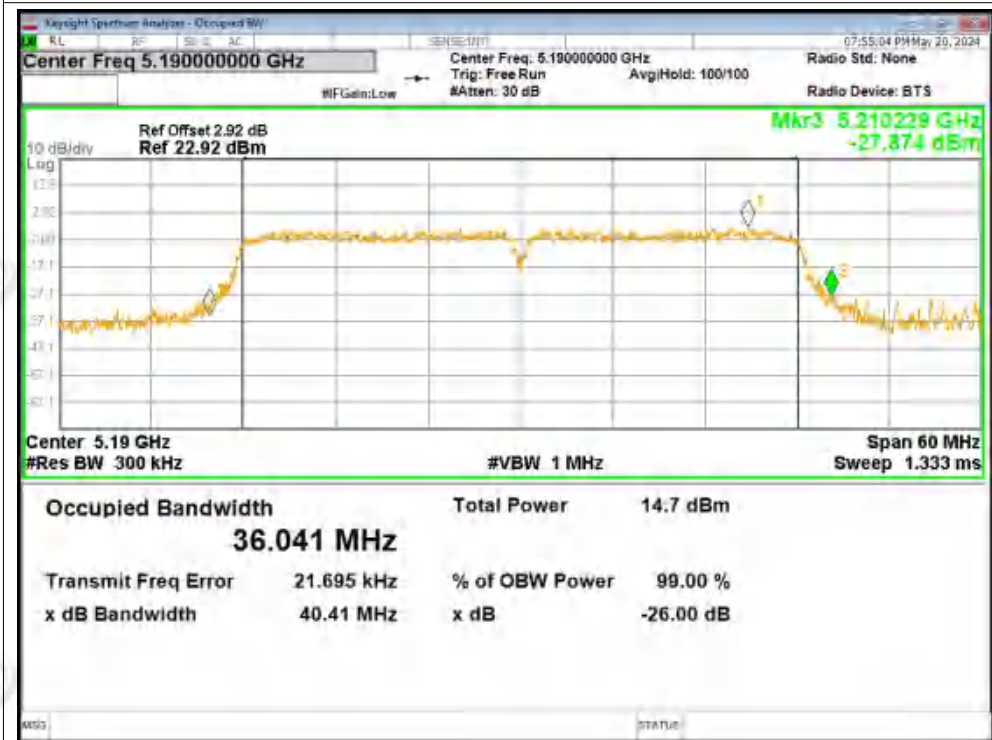


-26dB Bandwidth NVNT ac40 5230MHz Ant1

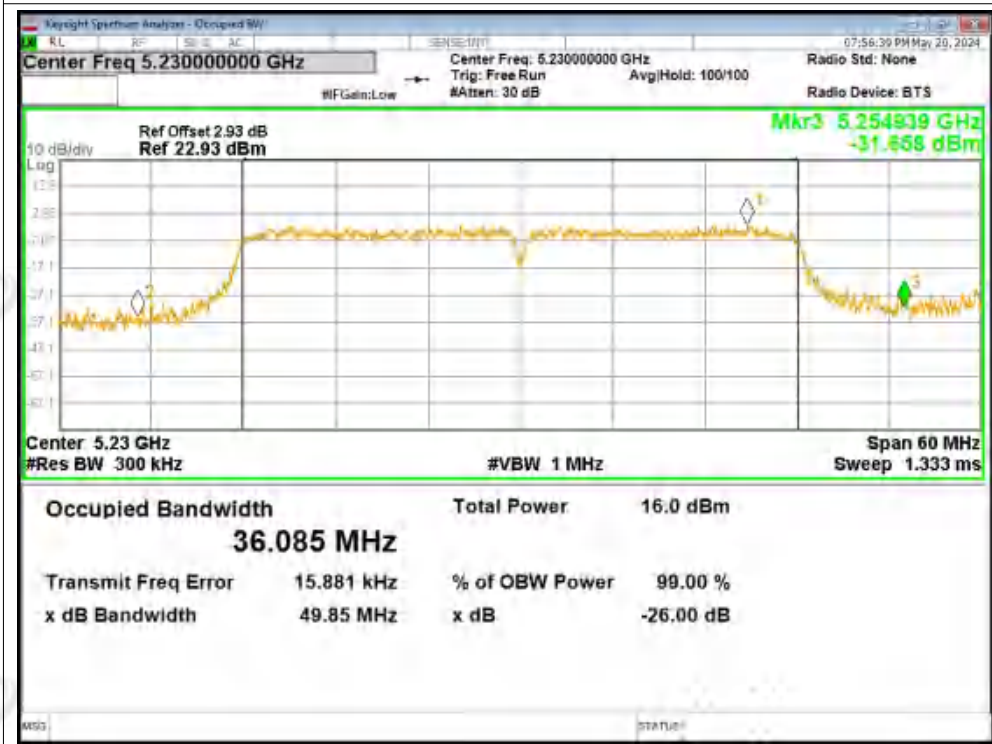




-26dB Bandwidth NVNT ac40 5190MHz Ant2

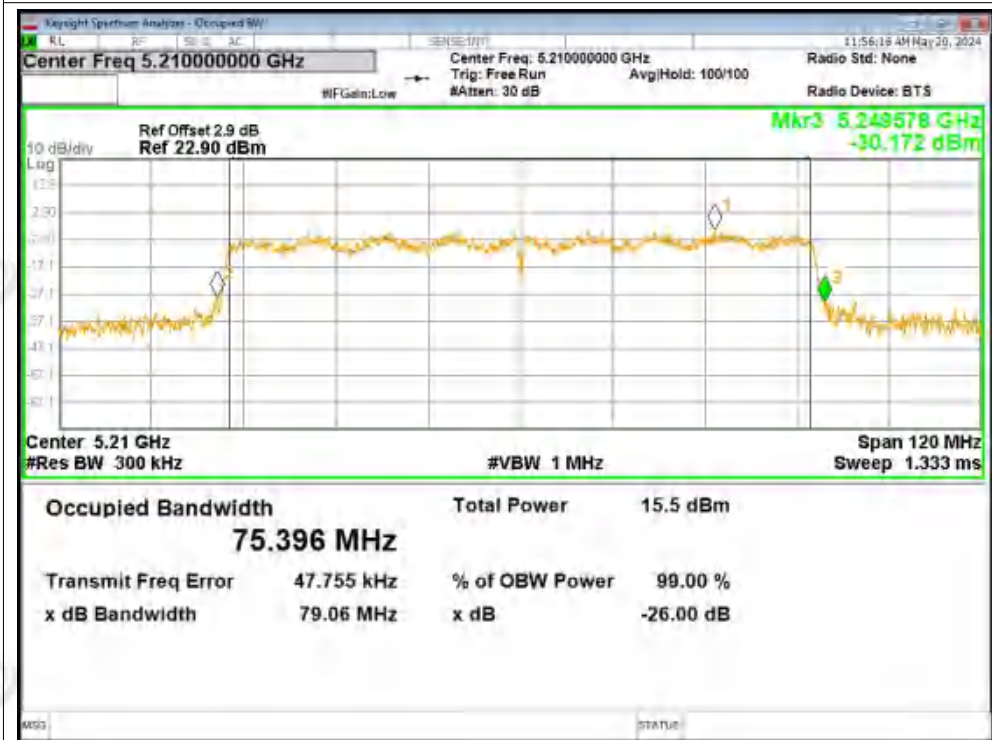


-26dB Bandwidth NVNT ac40 5230MHz Ant2





-26dB Bandwidth NVNT ac80 5210MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant2





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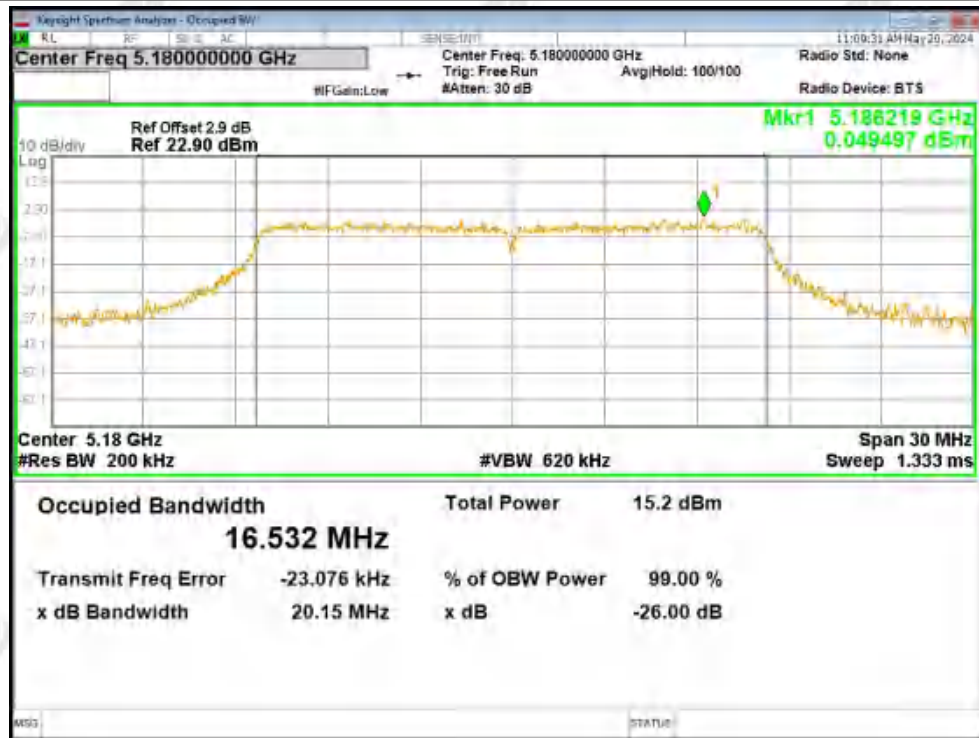
## A4. Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.532
NVNT	a	5200	Ant1	16.476
NVNT	a	5240	Ant1	16.545
NVNT	a	5180	Ant2	16.481
NVNT	a	5200	Ant2	16.504
NVNT	a	5240	Ant2	16.51
NVNT	n20	5180	Ant1	17.623
NVNT	n20	5200	Ant1	17.597
NVNT	n20	5240	Ant1	17.634
NVNT	n20	5180	Ant2	17.591
NVNT	n20	5200	Ant2	17.606
NVNT	n20	5240	Ant2	17.593
NVNT	n40	5190	Ant1	36.201
NVNT	n40	5230	Ant1	36.139
NVNT	n40	5190	Ant2	36.109
NVNT	n40	5230	Ant2	36.136
NVNT	ac20	5180	Ant1	17.588
NVNT	ac20	5200	Ant1	17.589
NVNT	ac20	5240	Ant1	17.651
NVNT	ac20	5180	Ant2	17.592
NVNT	ac20	5200	Ant2	17.607
NVNT	ac20	5240	Ant2	17.607
NVNT	ac40	5190	Ant1	36.155
NVNT	ac40	5230	Ant1	36.123
NVNT	ac40	5190	Ant2	36.199
NVNT	ac40	5230	Ant2	36.164
NVNT	ac80	5210	Ant1	75.362
NVNT	ac80	5210	Ant2	75.506

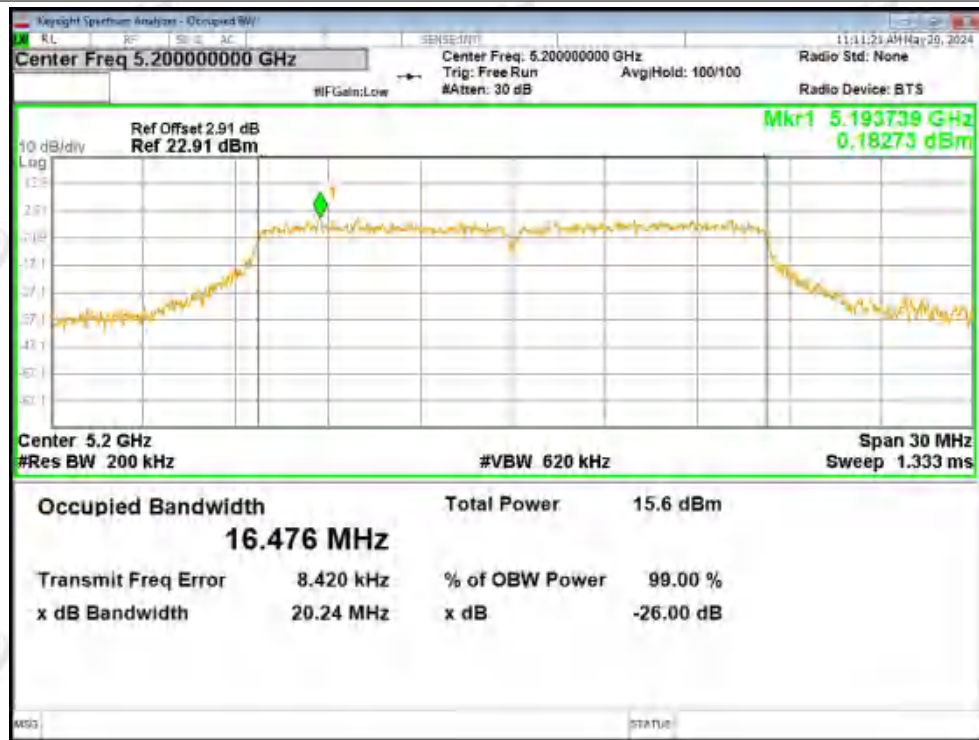


Test Graphs

OBW NVNT a 5180MHz Ant1



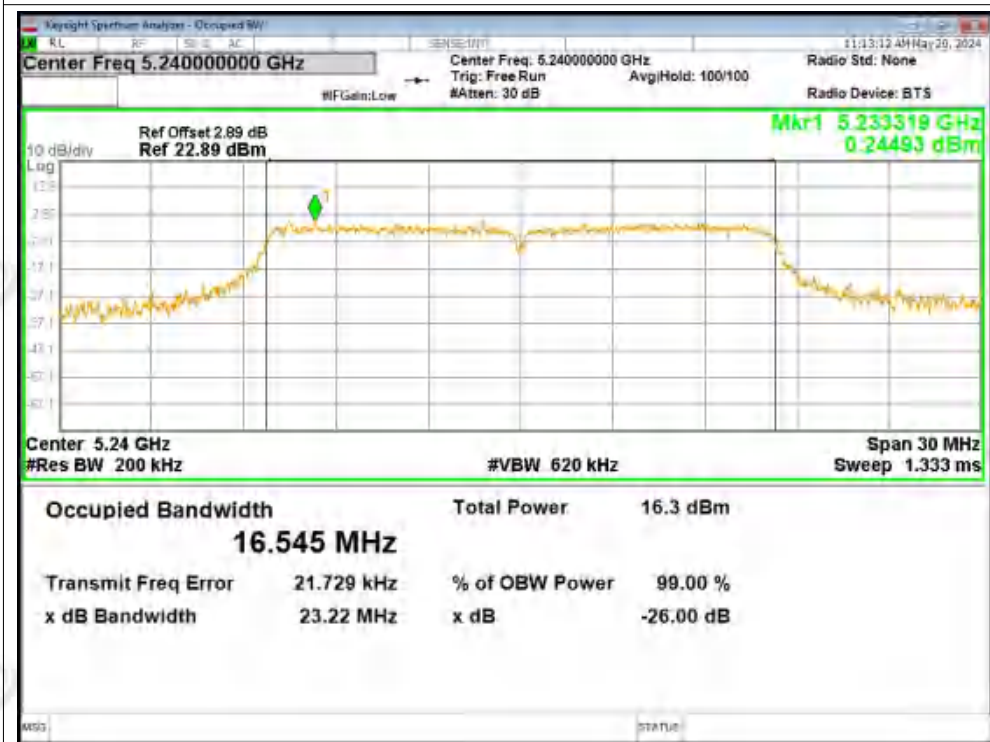
OBW NVNT a 5200MHz Ant1



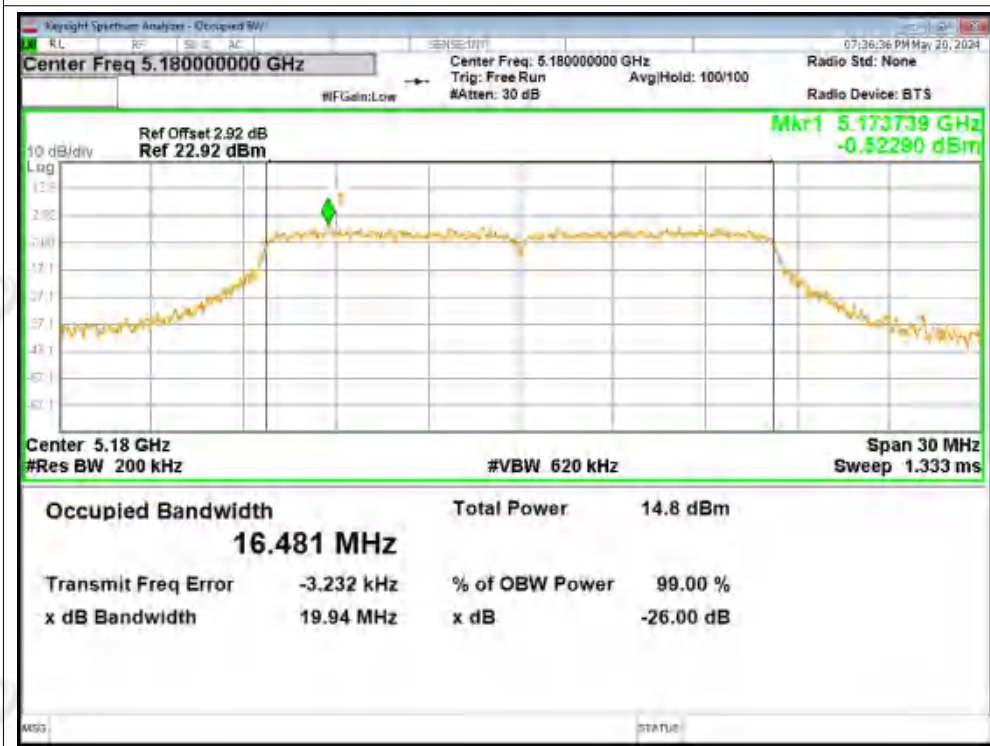




OBW NVNT a 5240MHz Ant1

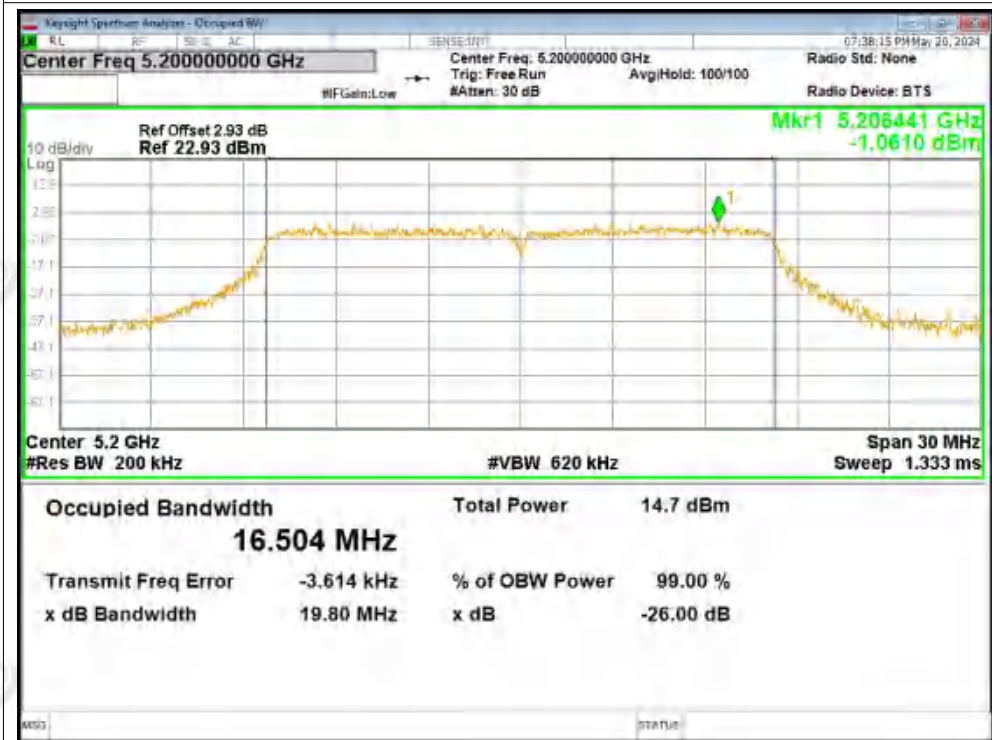


OBW NVNT a 5180MHz Ant2

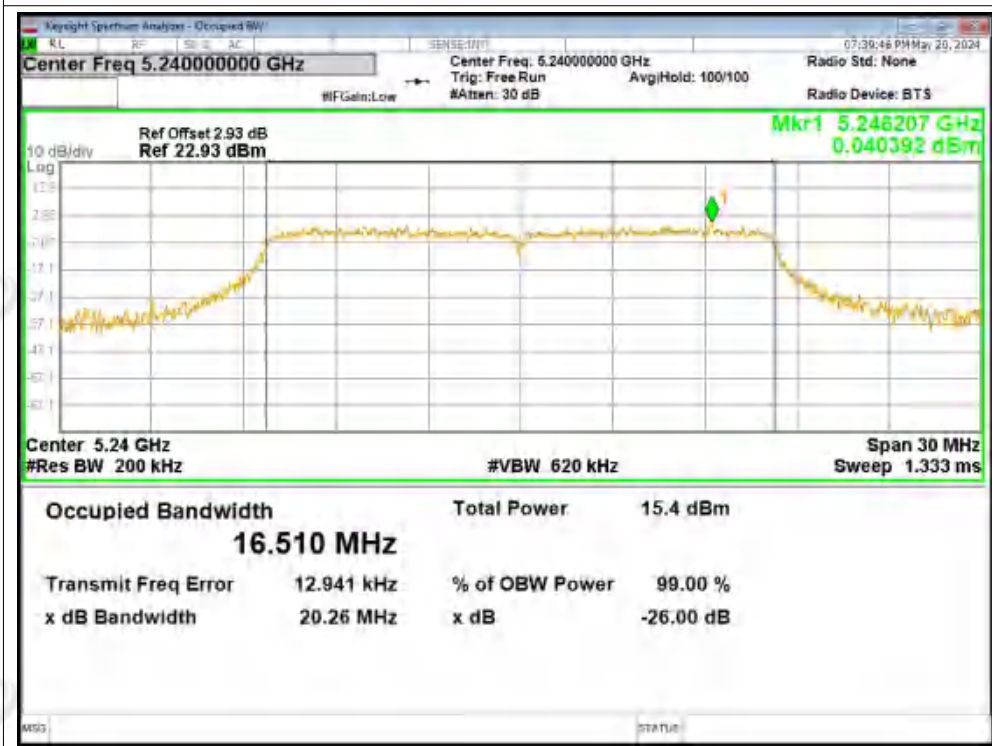




OBW NVNT a 5200MHz Ant2

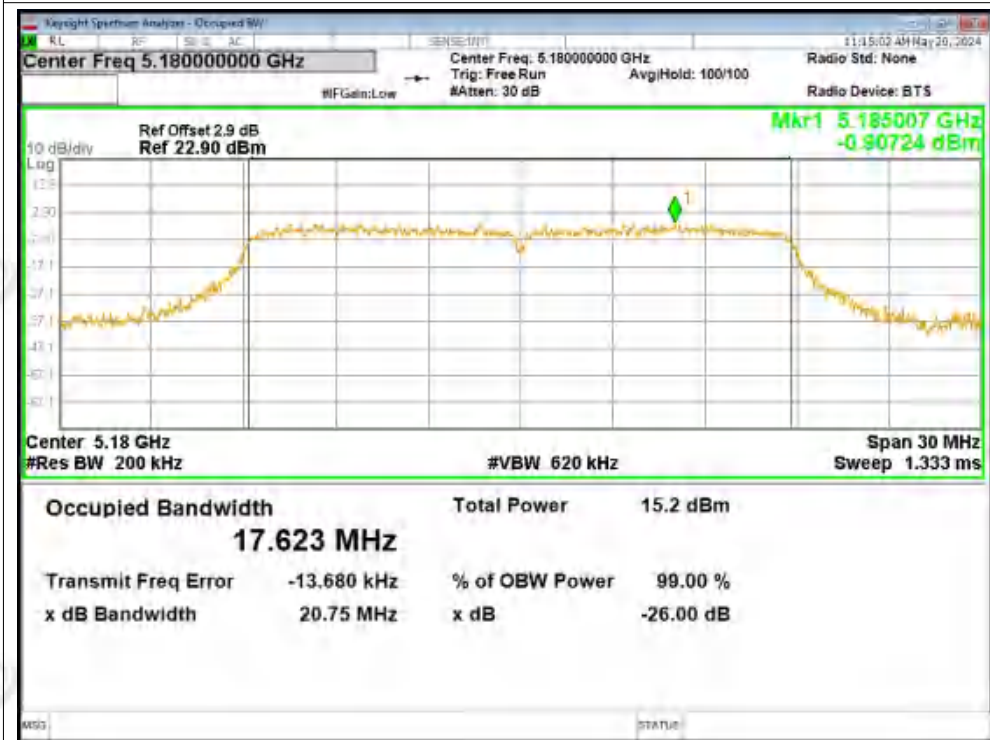


OBW NVNT a 5240MHz Ant2

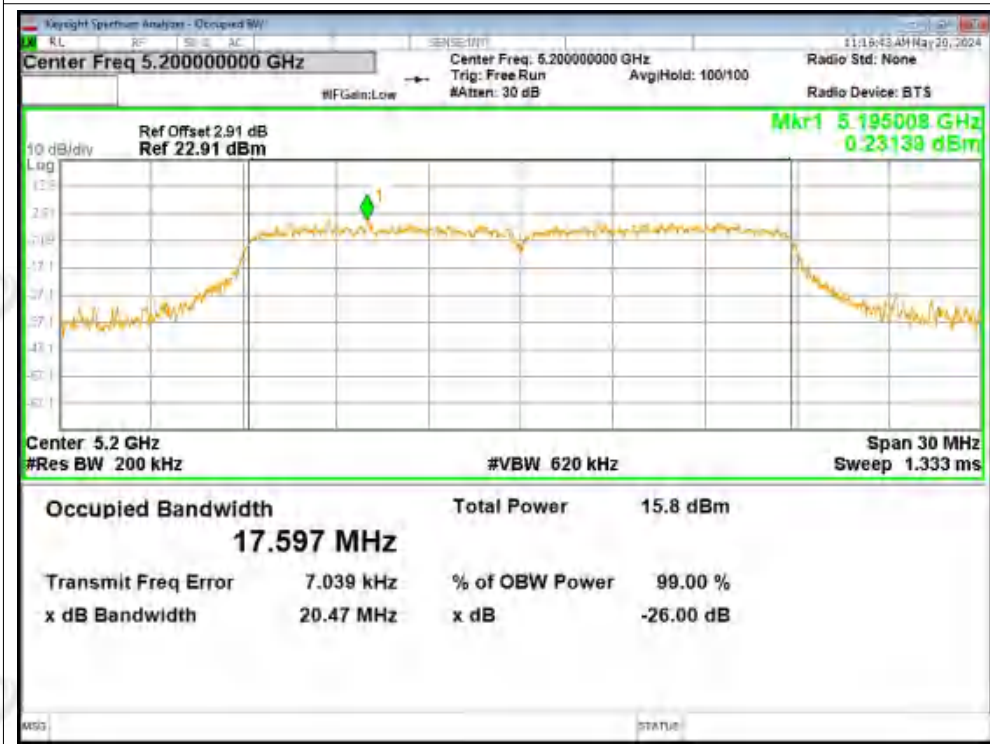




OBW NVNT n20 5180MHz Ant1

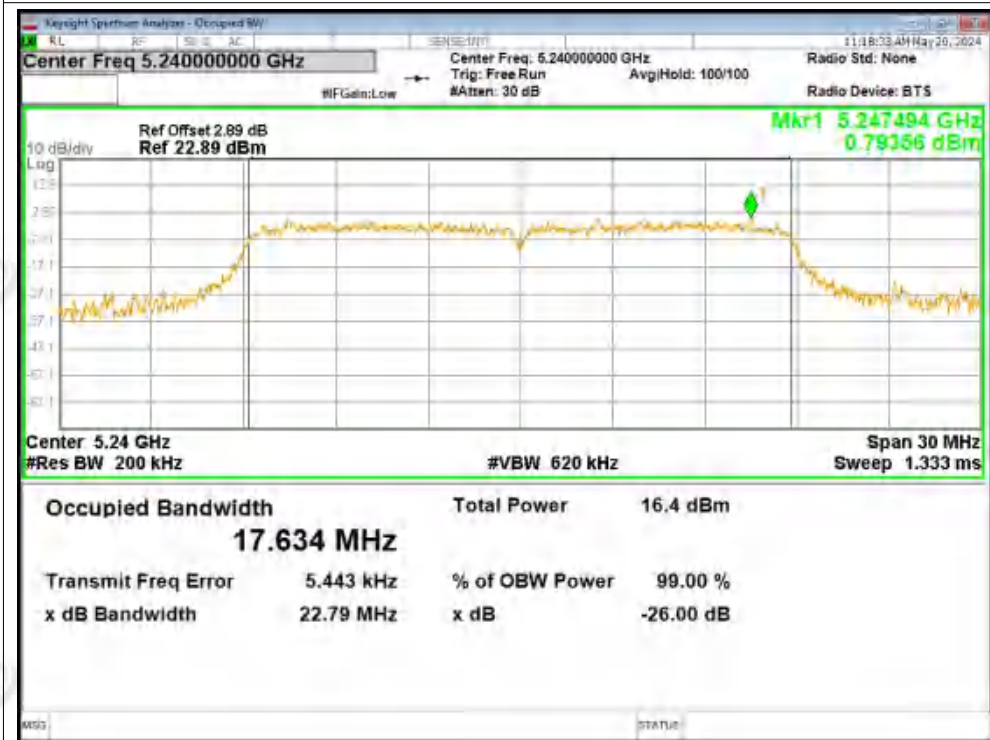


OBW NVNT n20 5200MHz Ant1

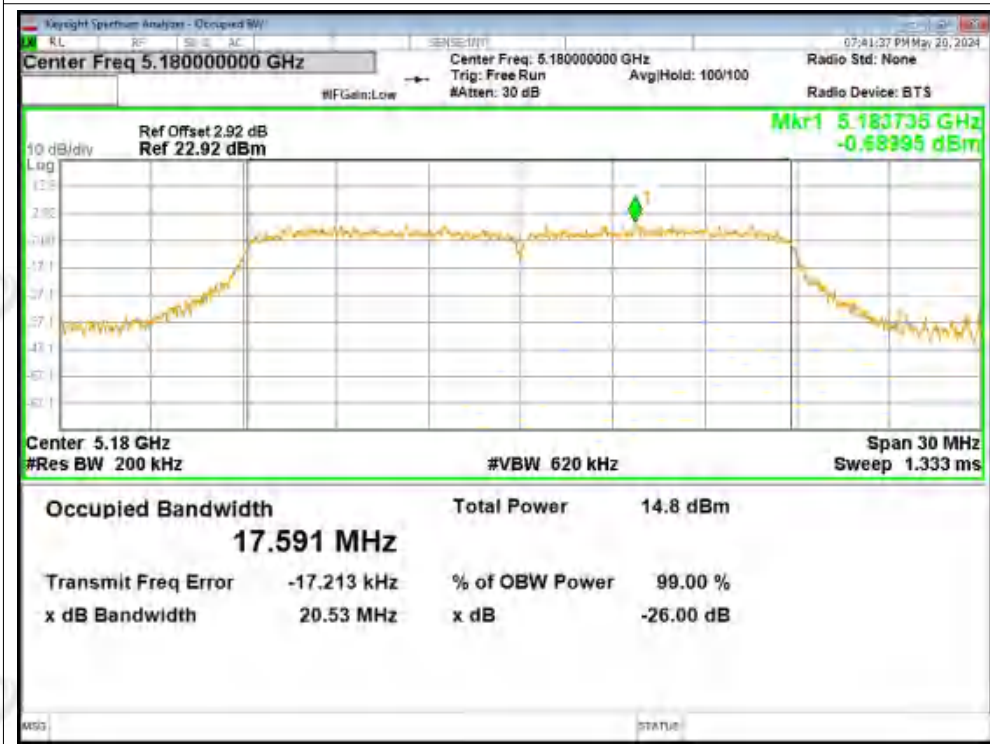




OBW NVNT n20 5240MHz Ant1

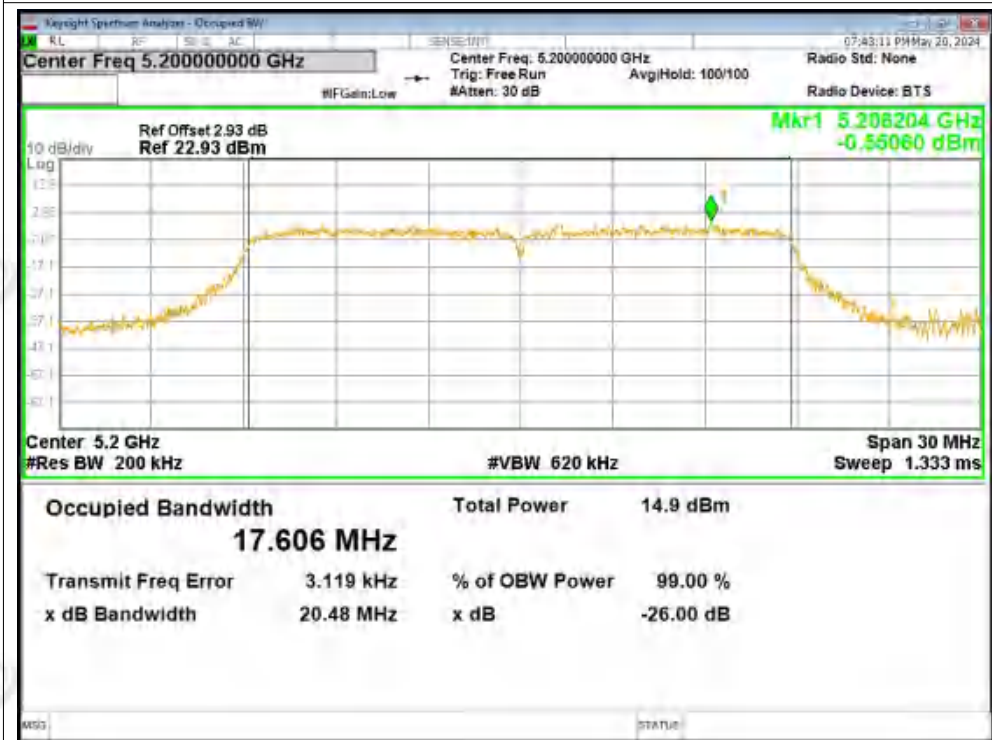


OBW NVNT n20 5180MHz Ant2

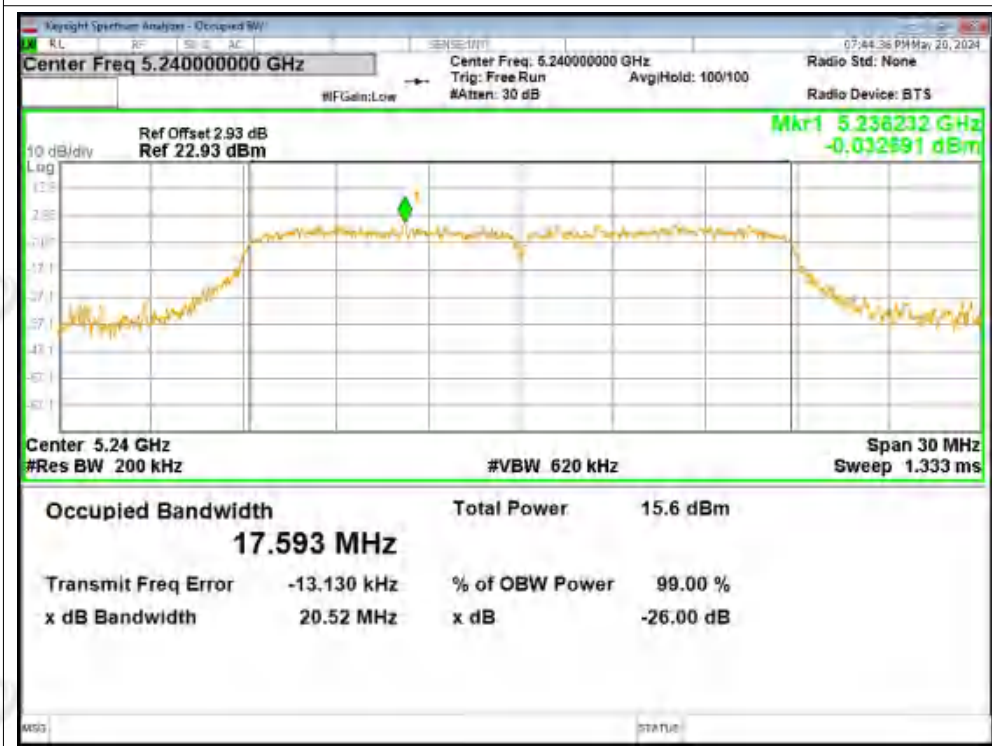




OBW NVNT n20 5200MHz Ant2

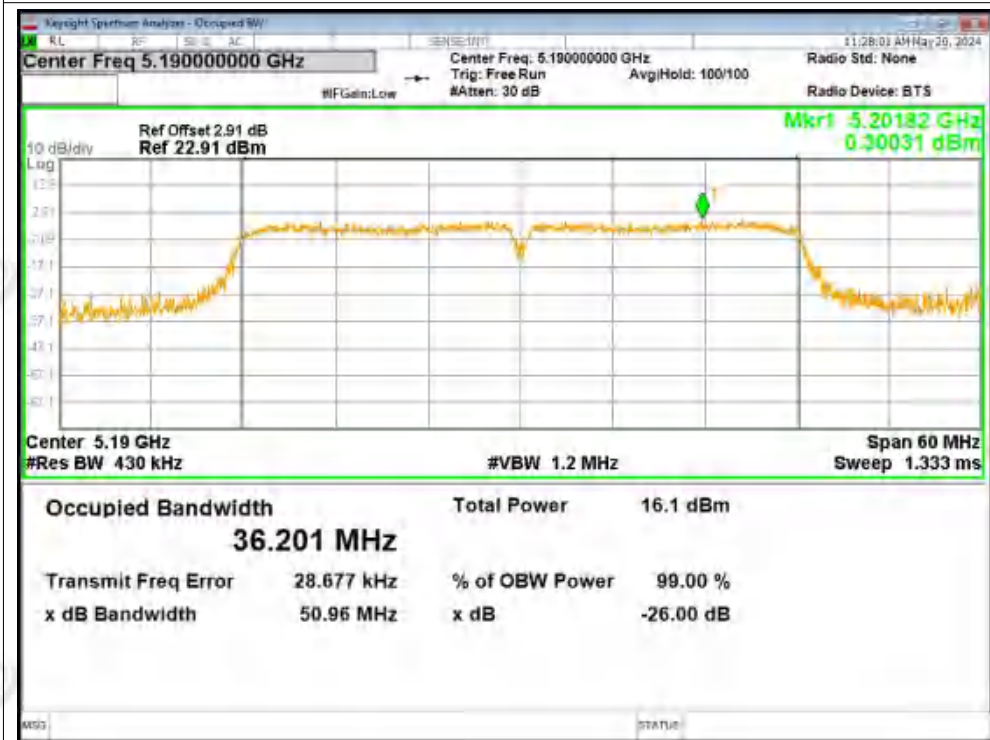


OBW NVNT n20 5240MHz Ant2

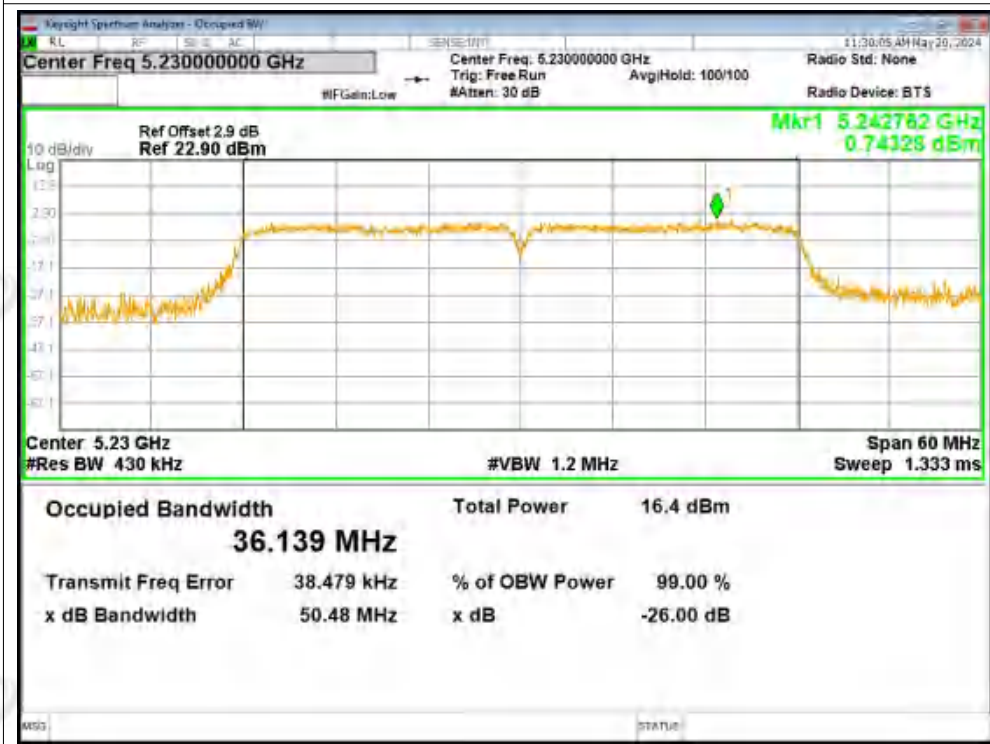




OBW NVNT n40 5190MHz Ant1

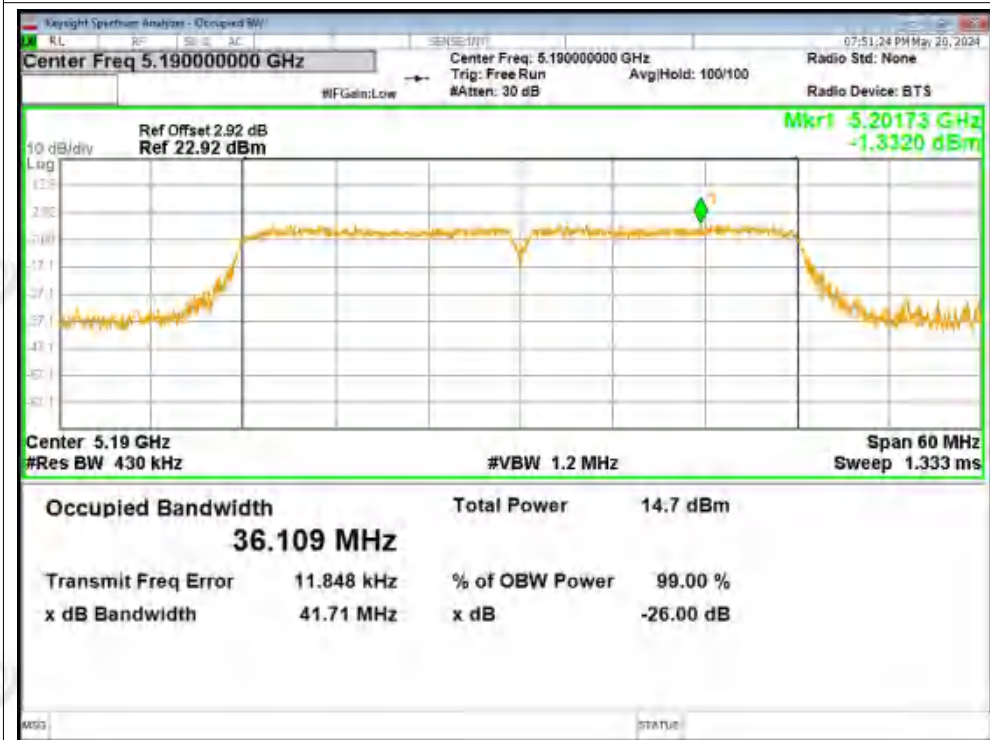


OBW NVNT n40 5230MHz Ant1





OBW NVNT n40 5190MHz Ant2

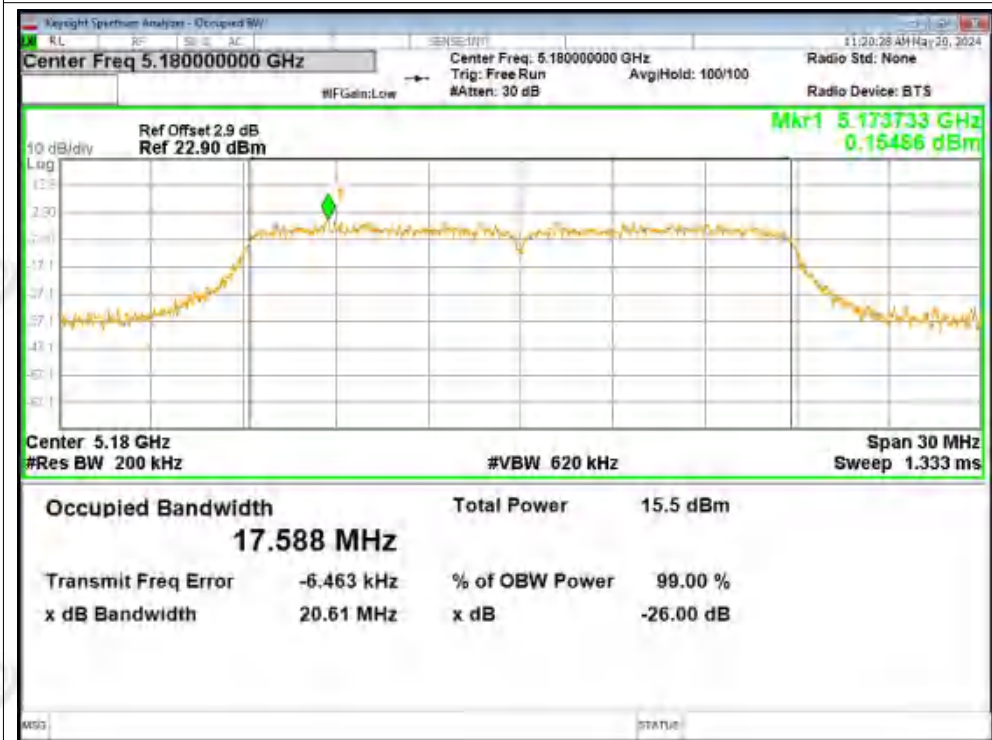


OBW NVNT n40 5230MHz Ant2





OBW NVNT ac20 5180MHz Ant1



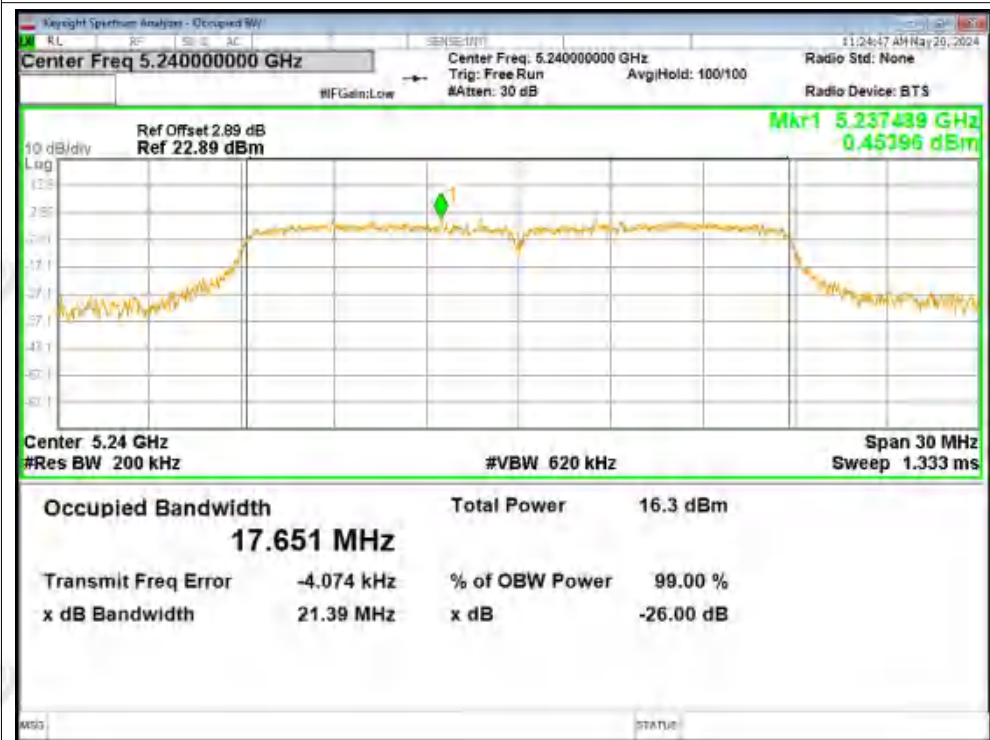
OBW NVNT ac20 5200MHz Ant1







OBW NVNT ac20 5240MHz Ant1

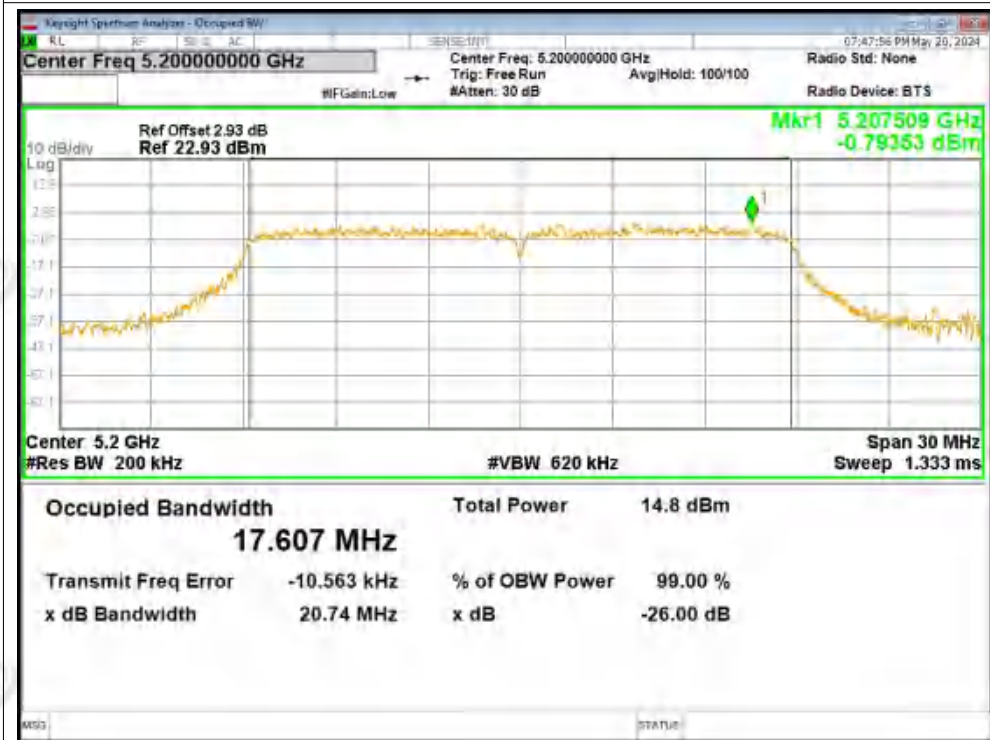


OBW NVNT ac20 5180MHz Ant2

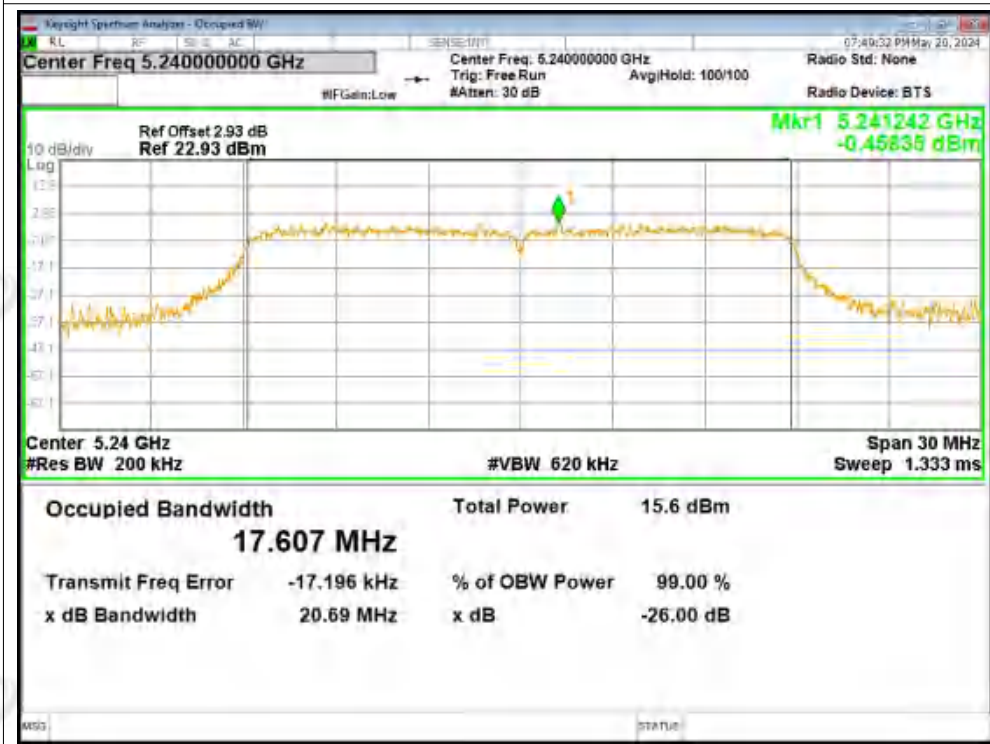




OBW NVNT ac20 5200MHz Ant2

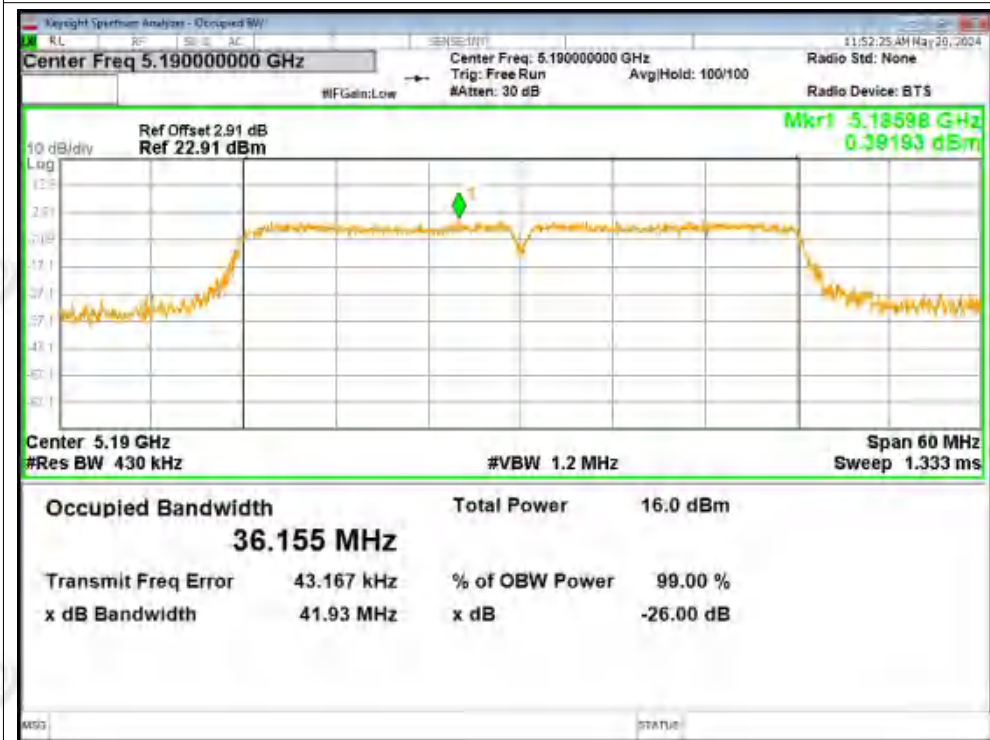


OBW NVNT ac20 5240MHz Ant2

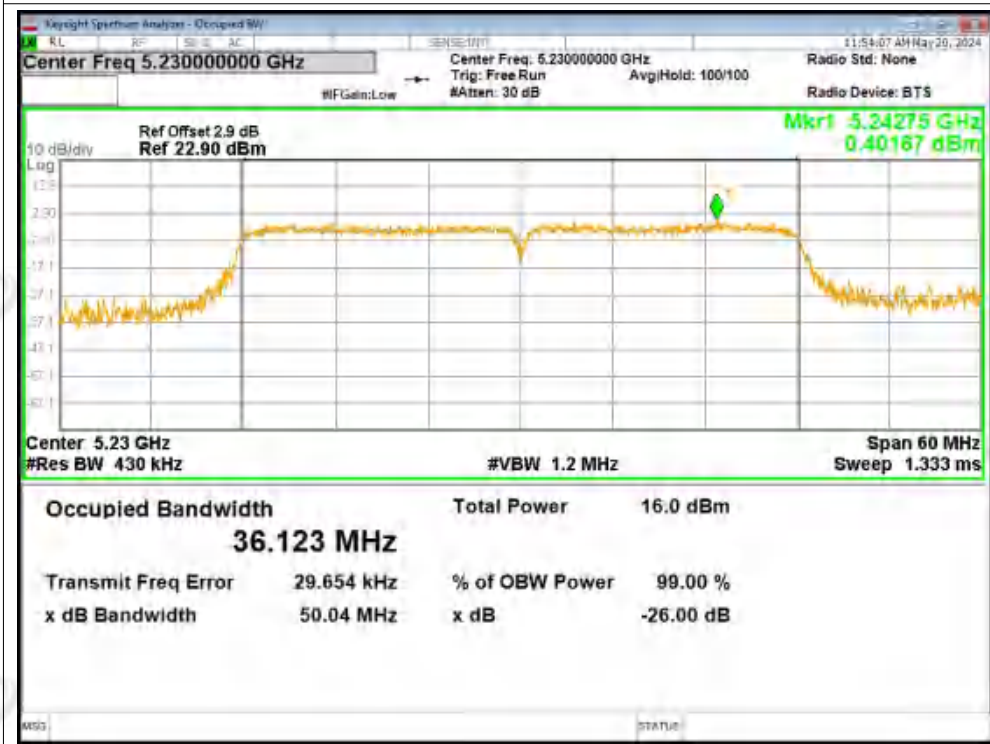




OBW NVNT ac40 5190MHz Ant1



OBW NVNT ac40 5230MHz Ant1





OBW NVNT ac40 5190MHz Ant2

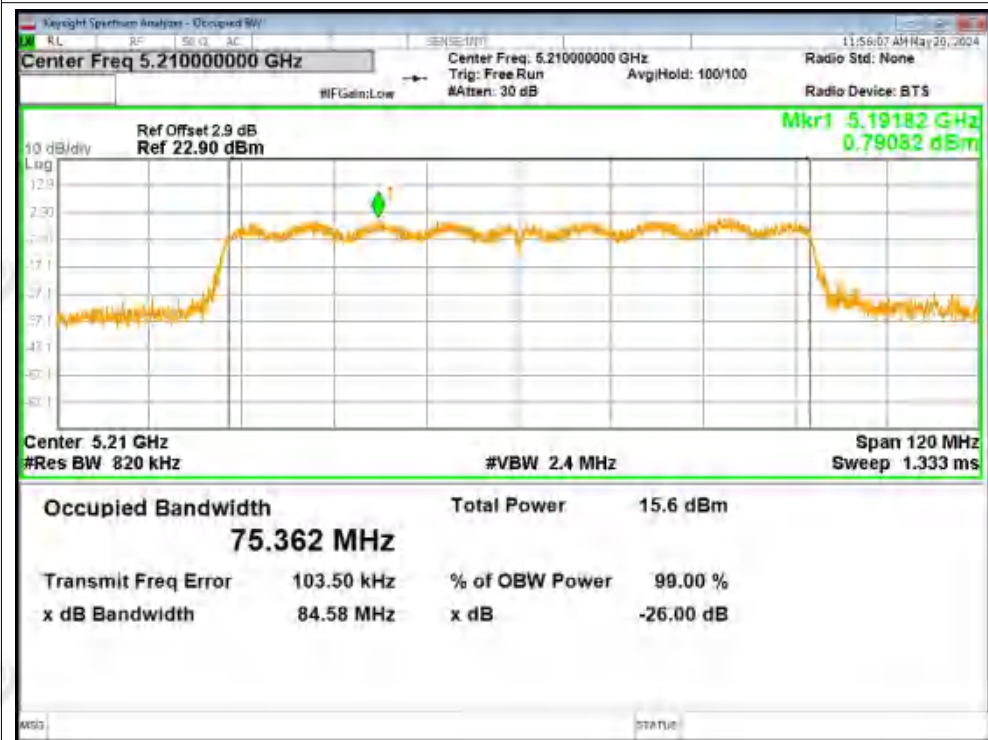


OBW NVNT ac40 5230MHz Ant2





OBW NVNT ac80 5210MHz Ant1



OBW NVNT ac80 5210MHz Ant2





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## A5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-21.67	2.41	-19.26	11	Pass
NVNT	a	5200	Ant1	-21.32	2.39	-18.93	11	Pass
NVNT	a	5240	Ant1	-19.86	2.38	-17.48	11	Pass
NVNT	a	5180	Ant2	-24.08	2.41	-21.67	11	Pass
NVNT	a	5200	Ant2	-24.98	2.39	-22.59	11	Pass
NVNT	a	5240	Ant2	-24.08	2.39	-21.69	11	Pass
NVNT	n20	5180	Ant1	-26.34	2.51	-23.83	11	Pass
NVNT	n20	5200	Ant1	-25.16	2.54	-22.62	11	Pass
NVNT	n20	5240	Ant1	-23.8	2.51	-21.29	11	Pass
NVNT	n20	5180	Ant2	-23.89	2.51	-21.38	11	Pass
NVNT	n20	5200	Ant2	-20.67	2.51	-18.16	11	Pass
NVNT	n20	5240	Ant2	-26.69	2.54	-24.15	11	Pass
NVNT	n40	5190	Ant1	-34.25	4.09	-30.16	11	Pass
NVNT	n40	5230	Ant1	-35.29	4.16	-31.13	11	Pass
NVNT	n40	5190	Ant2	-31.81	4.09	-27.72	11	Pass
NVNT	n40	5230	Ant2	-31.87	4.09	-27.78	11	Pass
NVNT	ac20	5180	Ant1	-25.08	2.51	-22.57	11	Pass
NVNT	ac20	5200	Ant1	-23.89	2.54	-21.35	11	Pass
NVNT	ac20	5240	Ant1	-24.3	0	-24.3	11	Pass
NVNT	ac20	5180	Ant2	-23.05	2.51	-20.54	11	Pass
NVNT	ac20	5200	Ant2	-23.06	2.54	-20.52	11	Pass
NVNT	ac20	5240	Ant2	-24.15	2.51	-21.64	11	Pass
NVNT	ac40	5190	Ant1	-27.11	4.09	-23.02	11	Pass
NVNT	ac40	5230	Ant1	-37.78	4.09	-33.69	11	Pass
NVNT	ac40	5190	Ant2	-32.31	4.09	-28.22	11	Pass
NVNT	ac40	5230	Ant2	-28.41	4.09	-24.32	11	Pass
NVNT	ac80	5210	Ant1	-42.15	6.15	-36	11	Pass
NVNT	ac80	5210	Ant2	-40.49	6.15	-34.34	11	Pass

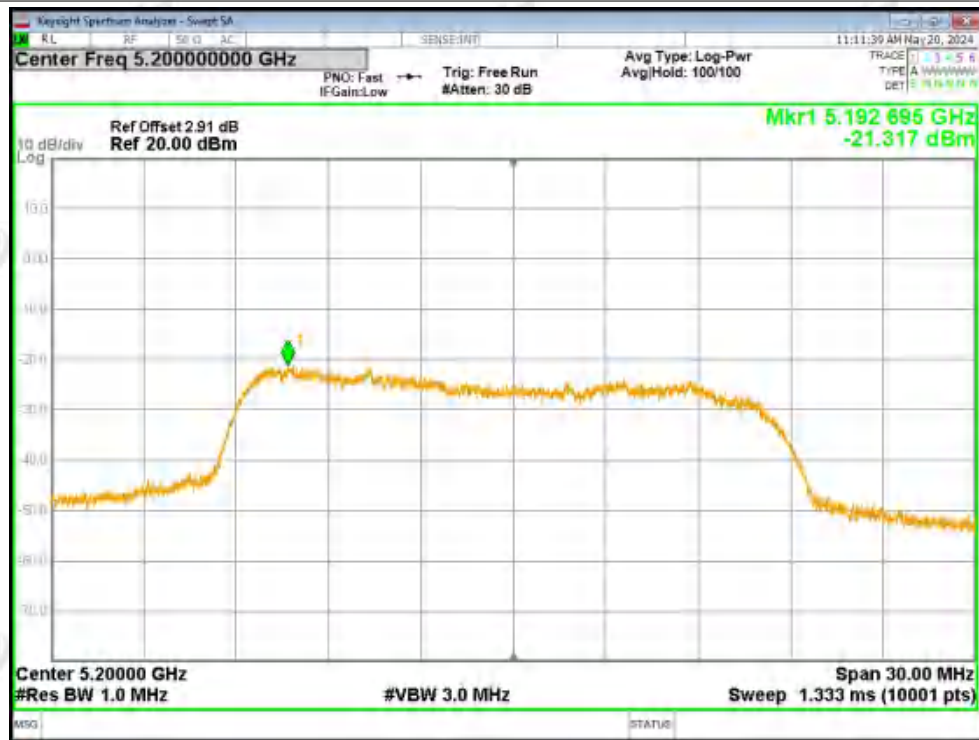


Test Graphs

PSD NVNT a 5180MHz Ant1

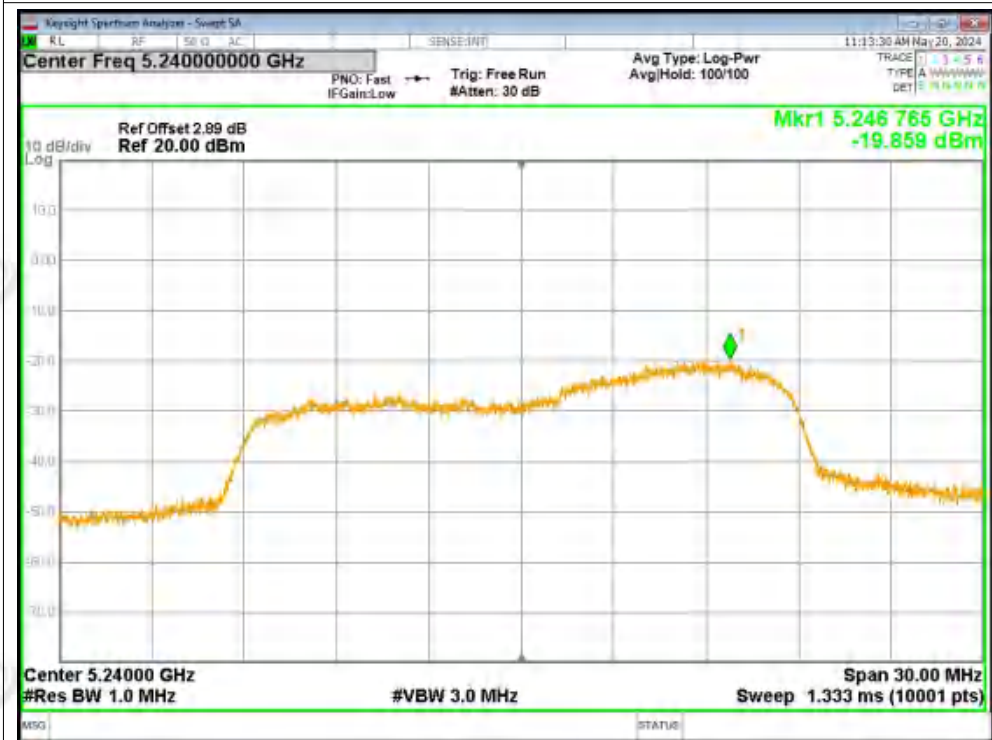


PSD NVNT a 5200MHz Ant1





PSD NVNT a 5240MHz Ant1



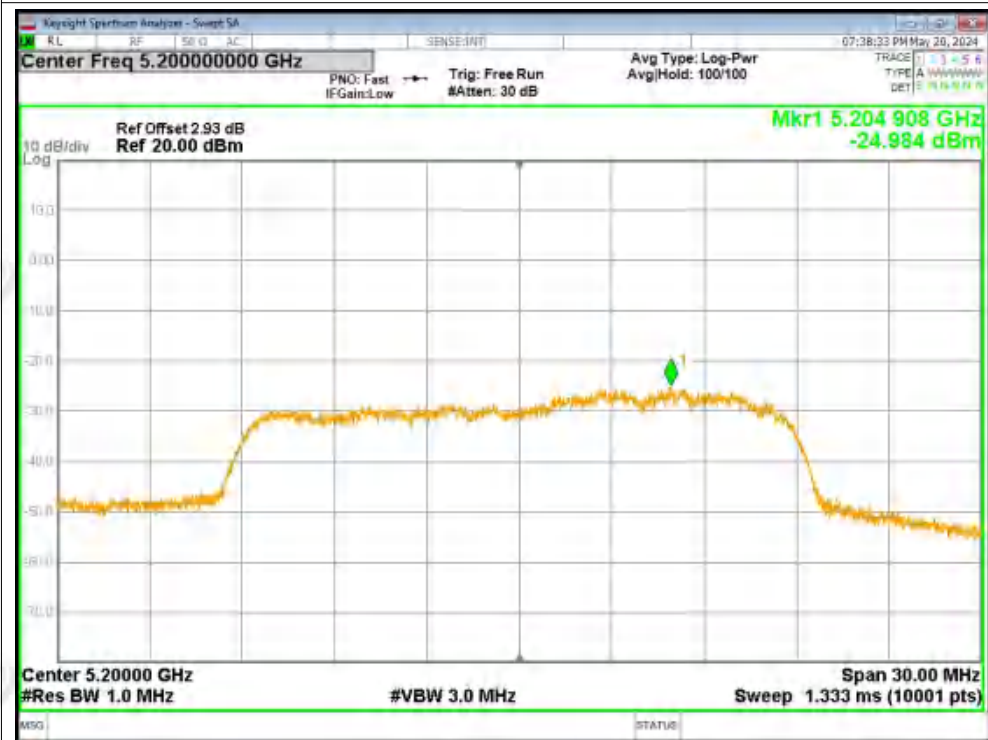
PSD NVNT a 5180MHz Ant2



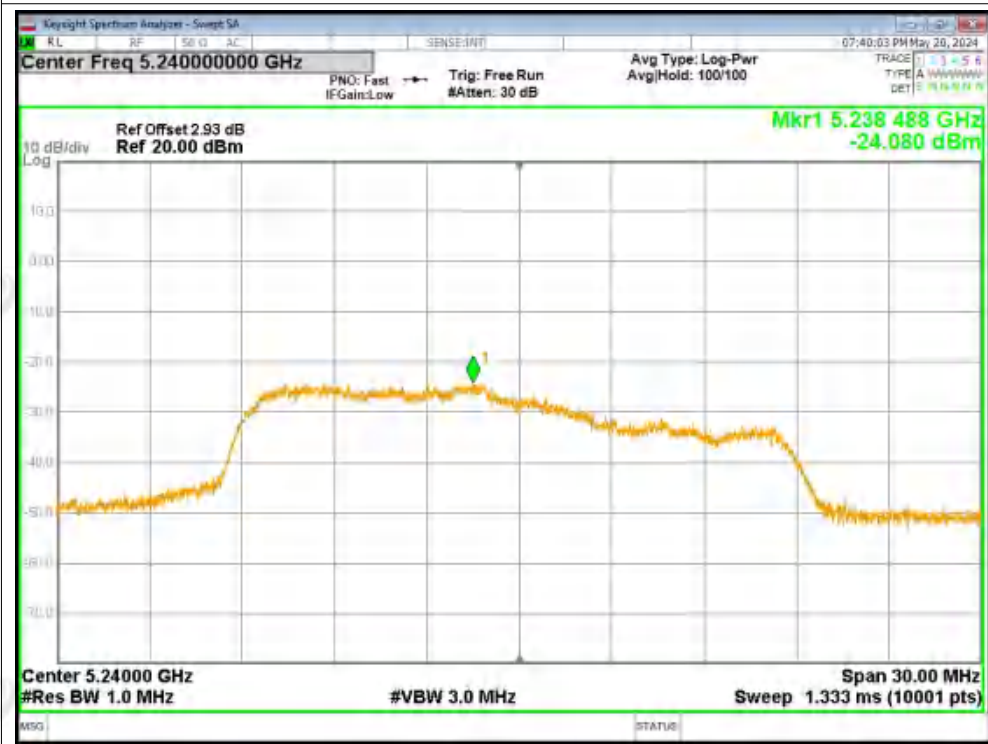




PSD NVNT a 5200MHz Ant2



PSD NVNT a 5240MHz Ant2

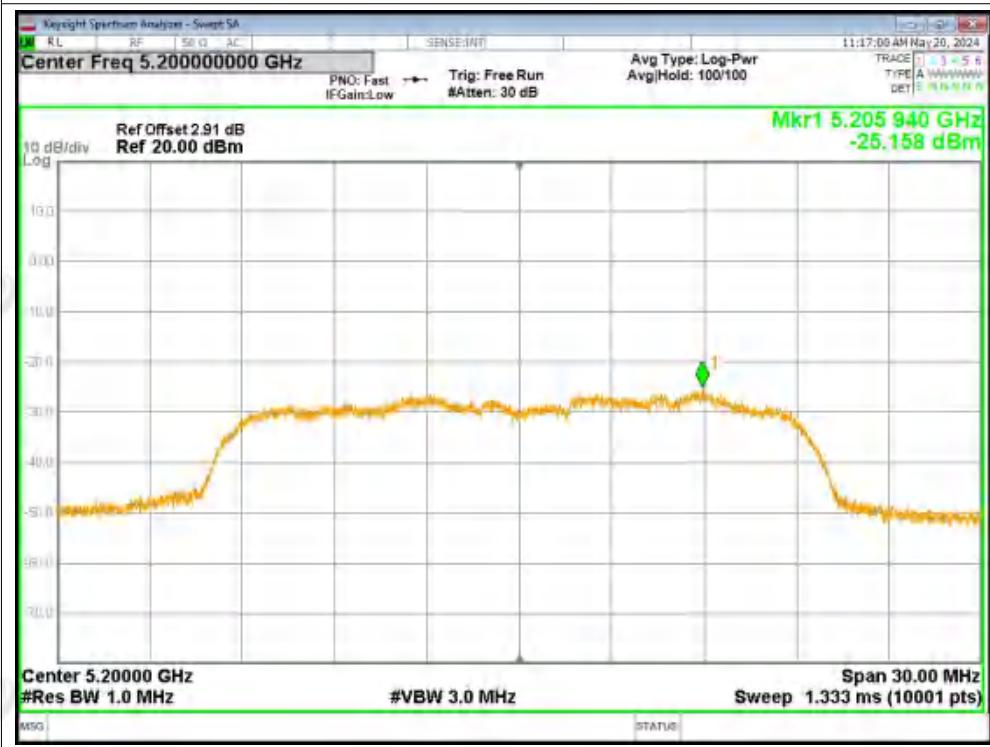




PSD NVNT n20 5180MHz Ant1

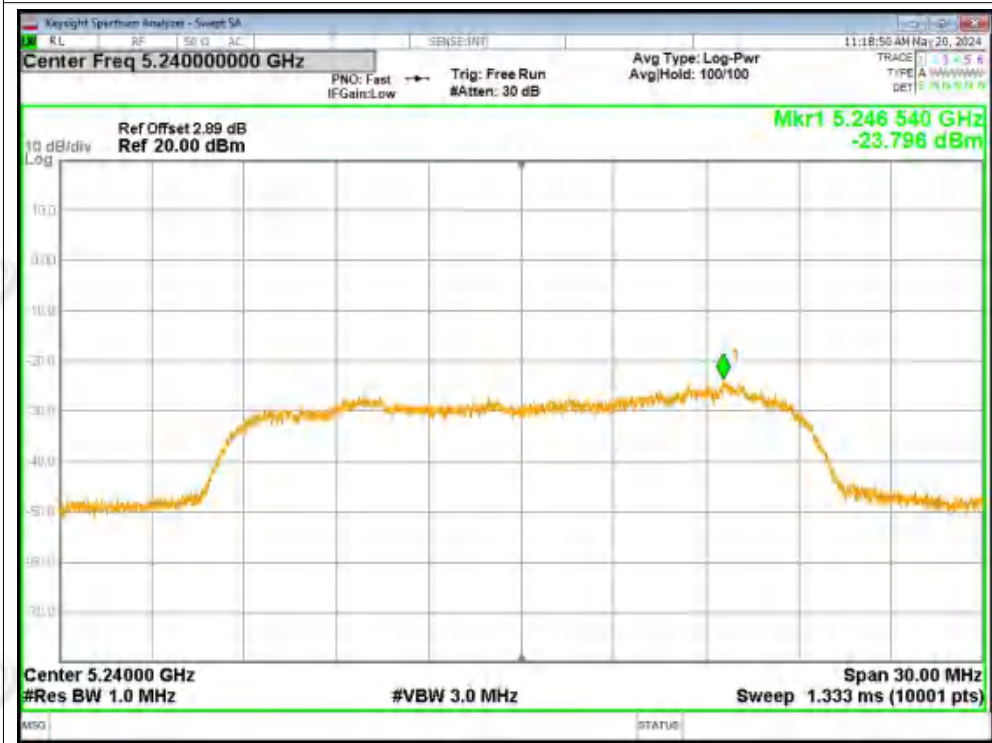


PSD NVNT n20 5200MHz Ant1

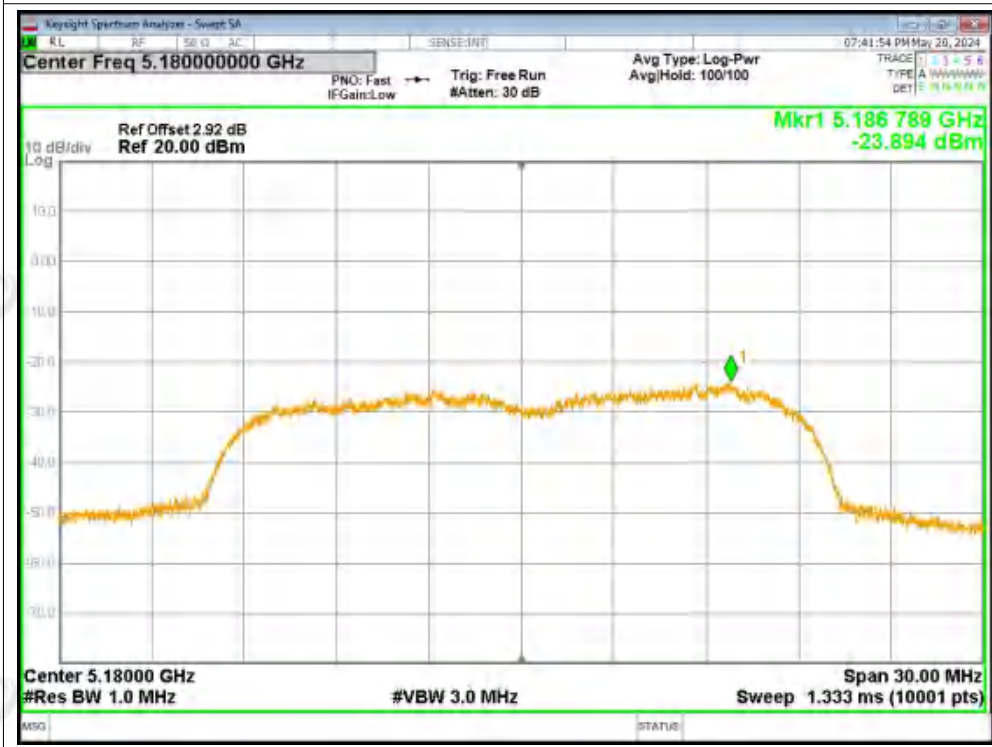




PSD NVNT n20 5240MHz Ant1

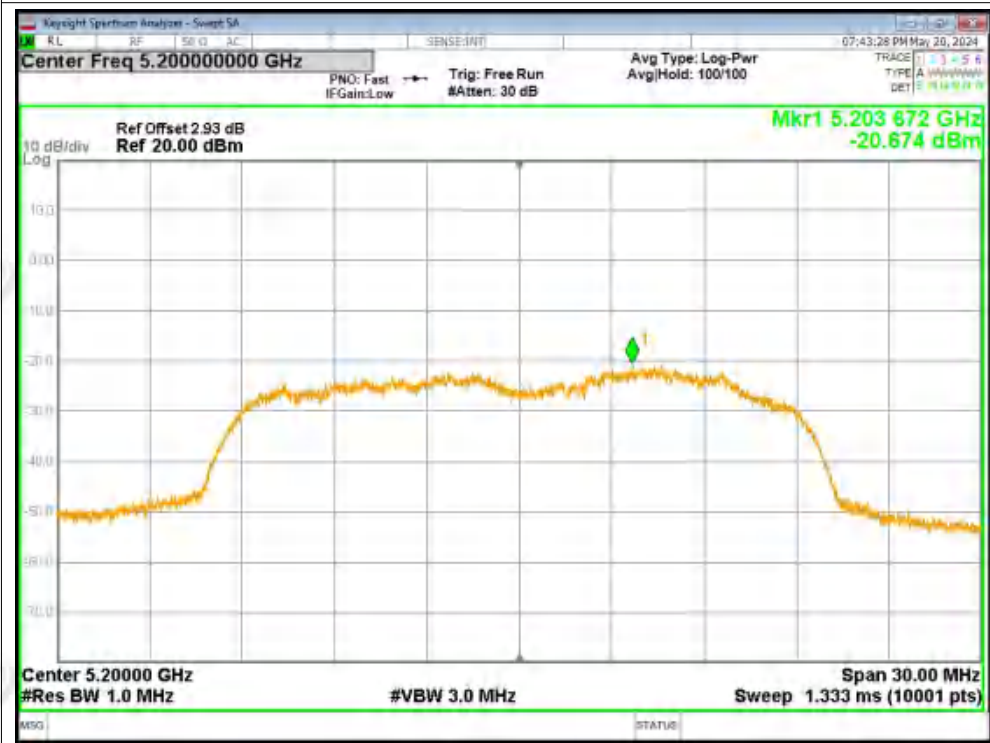


PSD NVNT n20 5180MHz Ant2





PSD NVNT n20 5200MHz Ant2



PSD NVNT n20 5240MHz Ant2

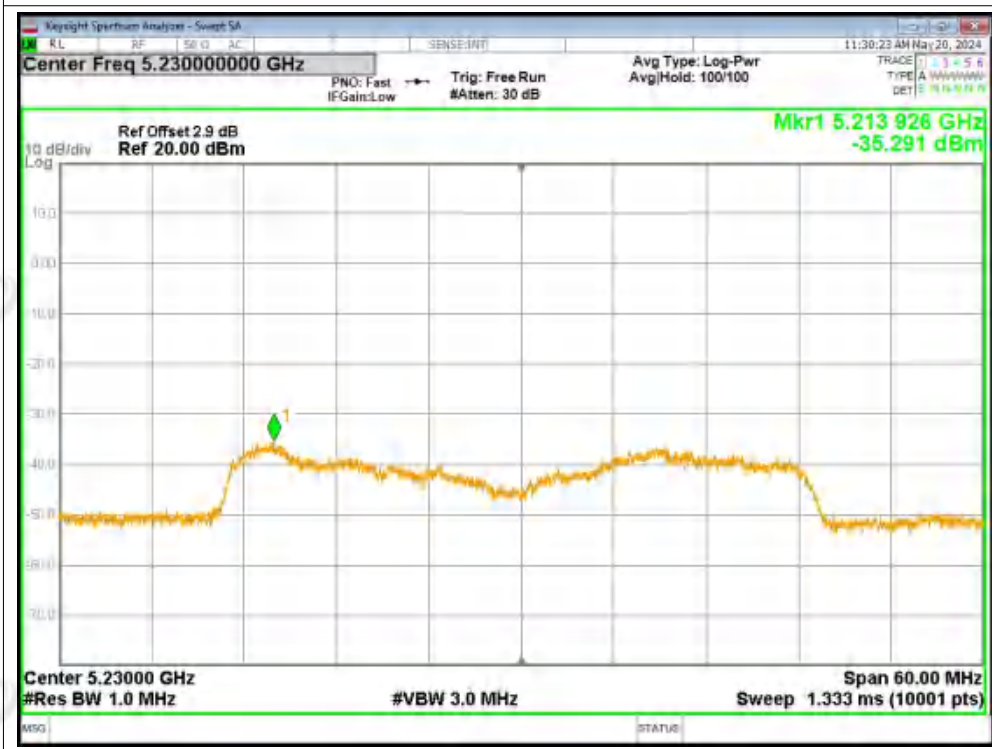




PSD NVNT n40 5190MHz Ant1



PSD NVNT n40 5230MHz Ant1

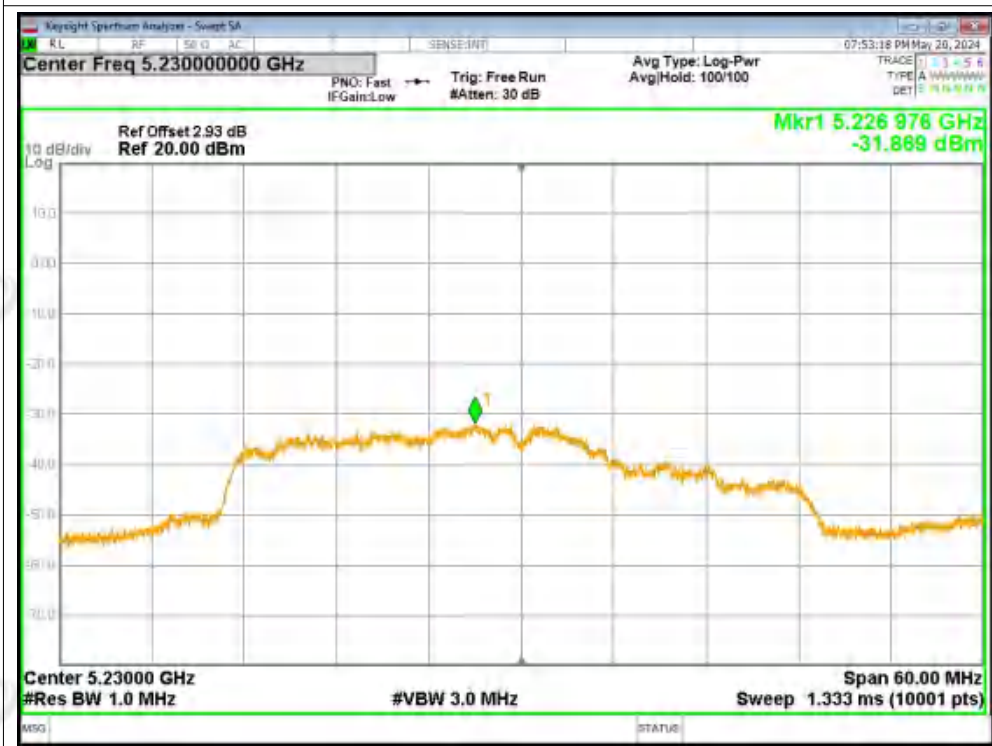




PSD NVNT n40 5190MHz Ant2



PSD NVNT n40 5230MHz Ant2

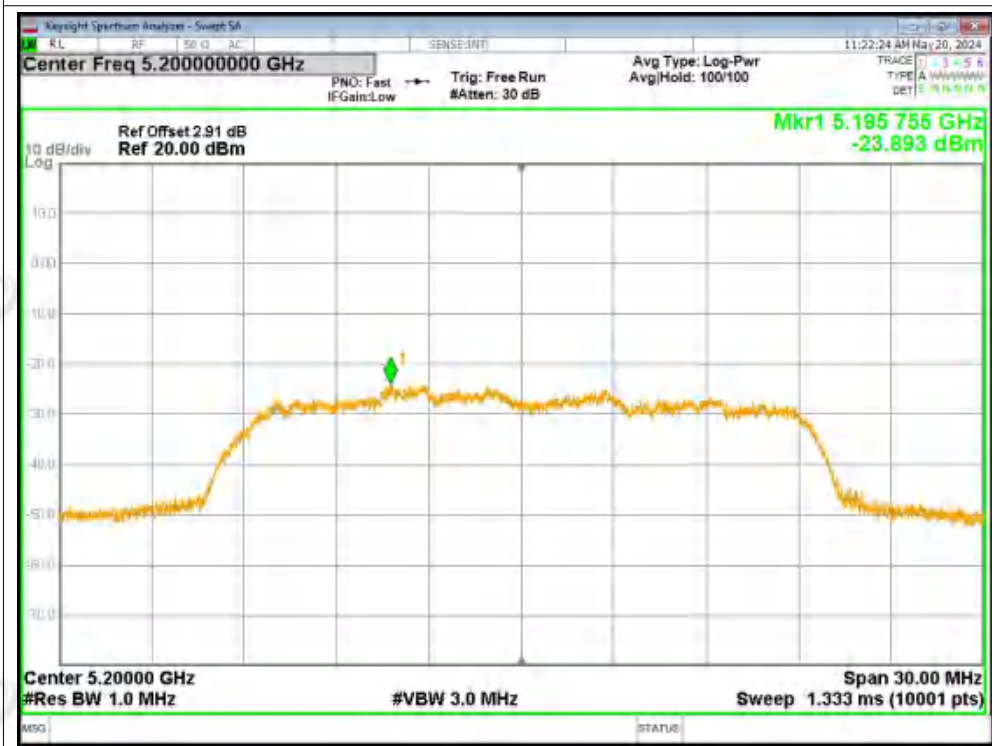




PSD NVNT ac20 5180MHz Ant1

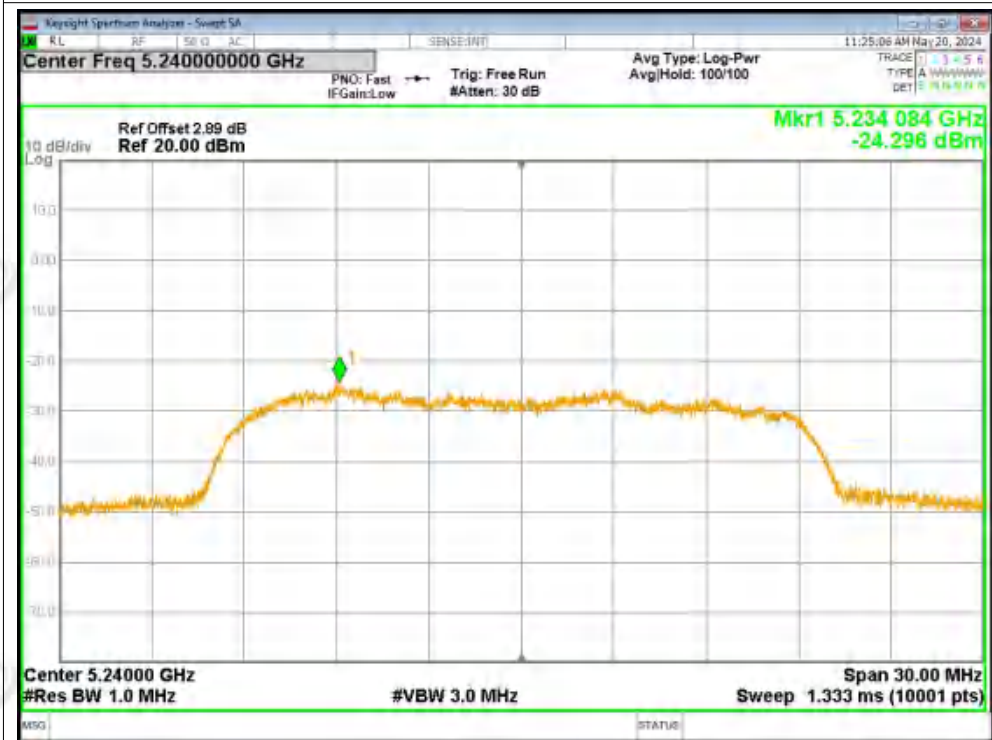


PSD NVNT ac20 5200MHz Ant1

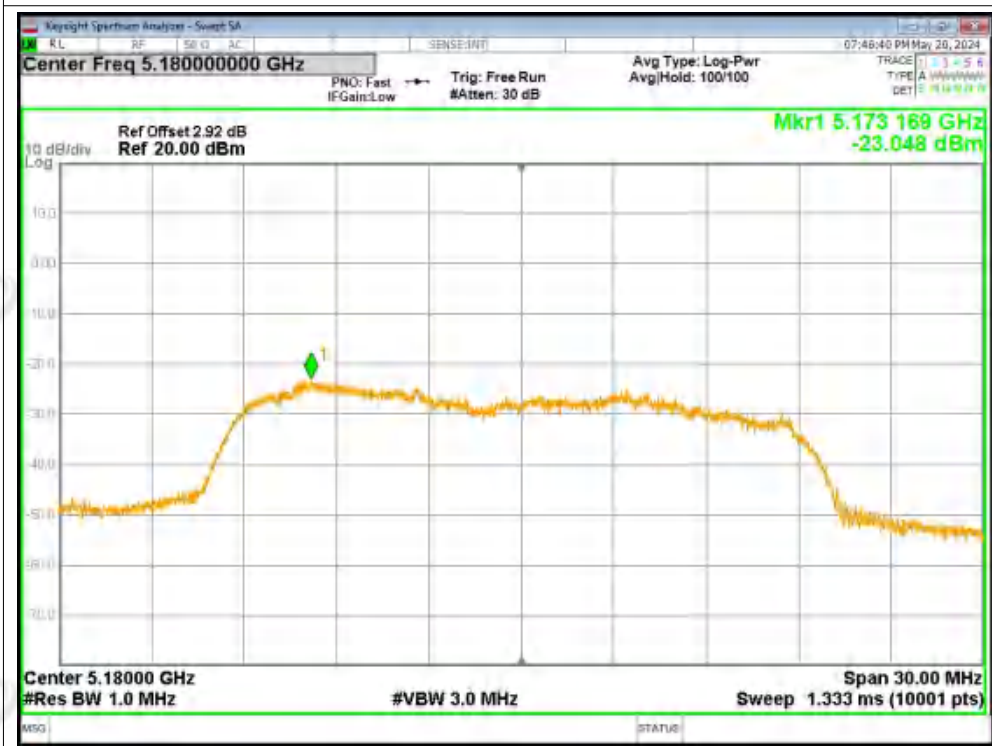




PSD NVNT ac20 5240MHz Ant1



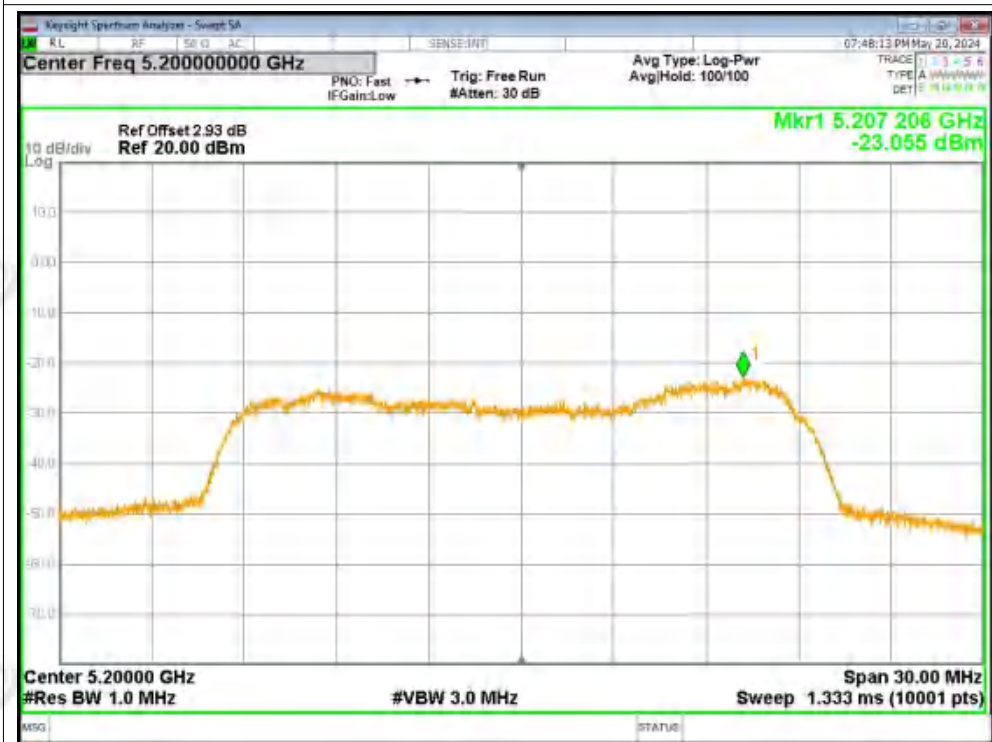
PSD NVNT ac20 5180MHz Ant2



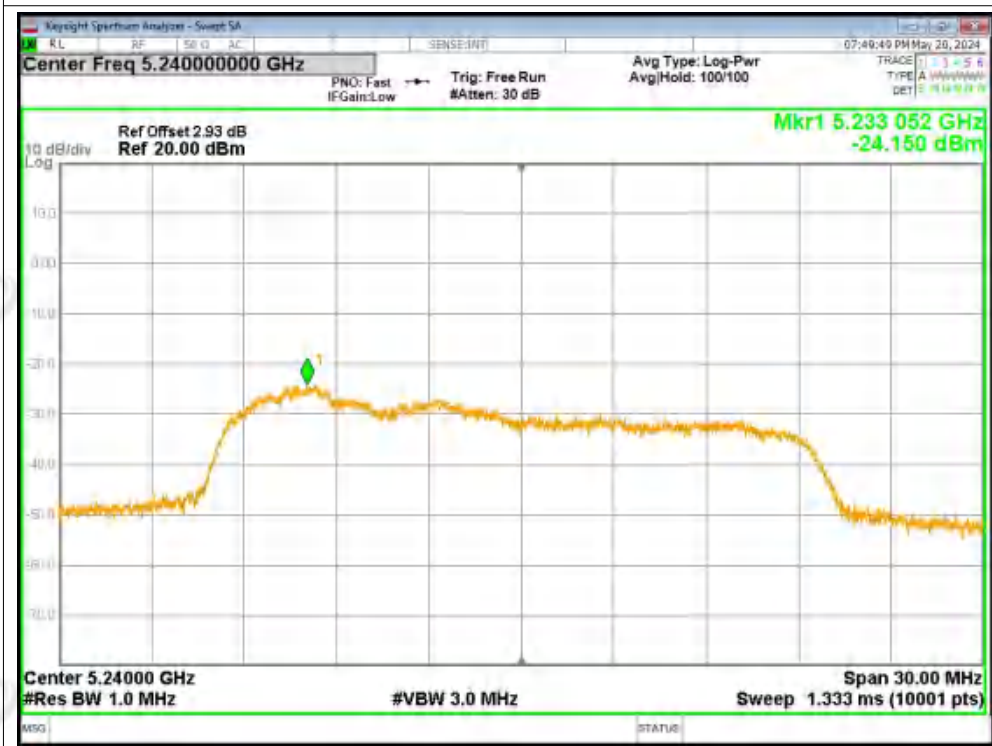




PSD NVNT ac20 5200MHz Ant2



PSD NVNT ac20 5240MHz Ant2





PSD NVNT ac40 5190MHz Ant1



PSD NVNT ac40 5230MHz Ant1

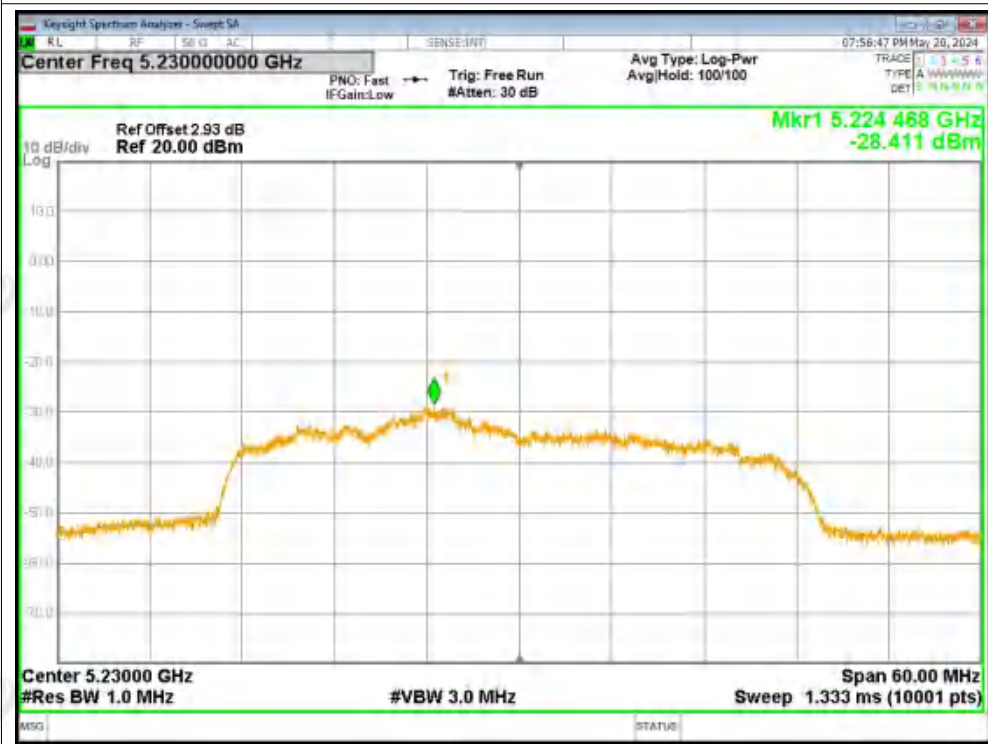




PSD NVNT ac40 5190MHz Ant2



PSD NVNT ac40 5230MHz Ant2





PSD NVNT ac80 5210MHz Ant1



PSD NVNT ac80 5210MHz Ant2





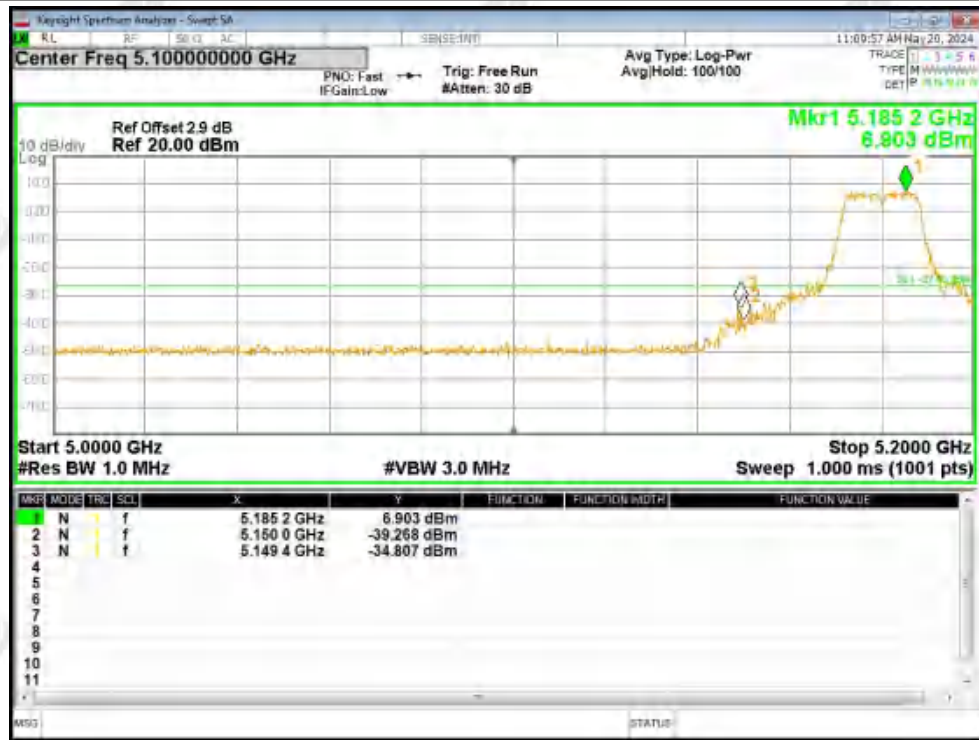
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**A6. Band Edge**

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-34.8	-27	Pass
NVNT	a	5240	Ant1	-45.42	-27	Pass
NVNT	a	5180	Ant2	-41.41	-27	Pass
NVNT	a	5240	Ant2	-46.09	-27	Pass
NVNT	n20	5180	Ant1	-37.2	-27	Pass
NVNT	n20	5240	Ant1	-45.95	-27	Pass
NVNT	n20	5180	Ant2	-40.8	-27	Pass
NVNT	n20	5240	Ant2	-45.99	-27	Pass
NVNT	n40	5190	Ant1	-29.57	-27	Pass
NVNT	n40	5230	Ant1	-44.33	-27	Pass
NVNT	n40	5190	Ant2	-32.74	-27	Pass
NVNT	n40	5230	Ant2	-46.03	-27	Pass
NVNT	ac20	5180	Ant1	-36.66	-27	Pass
NVNT	ac20	5240	Ant1	-46.18	-27	Pass
NVNT	ac20	5180	Ant2	-40.03	-27	Pass
NVNT	ac20	5240	Ant2	-46.24	-27	Pass
NVNT	ac40	5190	Ant1	-30.33	-27	Pass
NVNT	ac40	5230	Ant1	-46.65	-27	Pass
NVNT	ac40	5190	Ant2	-31.28	-27	Pass
NVNT	ac40	5230	Ant2	-46.29	-27	Pass
NVNT	ac80	5210	Ant1	-32.33	-27	Pass
NVNT	ac80	5210	Ant2	-30.09	-27	Pass

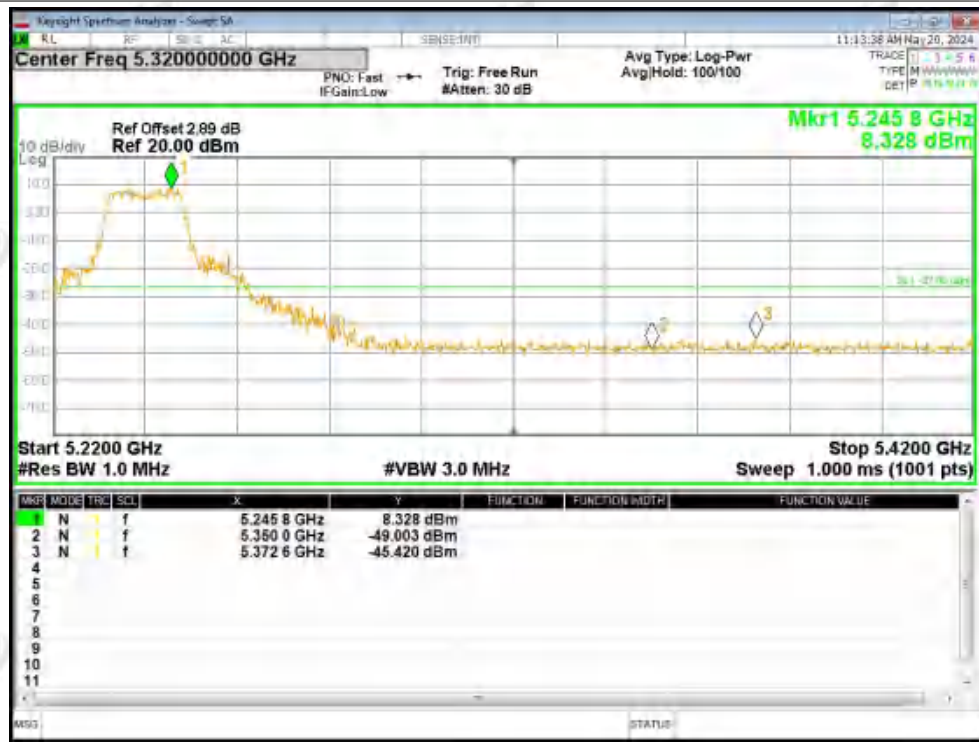


Test Graphs

Band Edge NVNT a 5180MHz Low Ant1

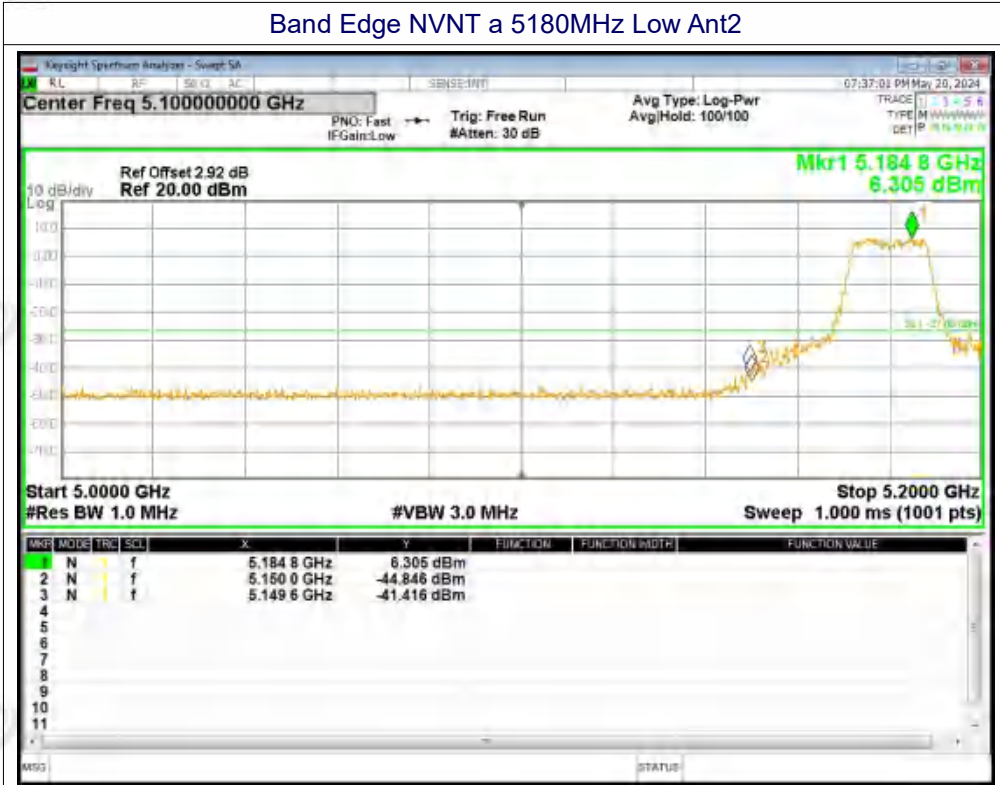


Band Edge NVNT a 5240MHz High Ant1





Band Edge NVNT a 5180MHz Low Ant2

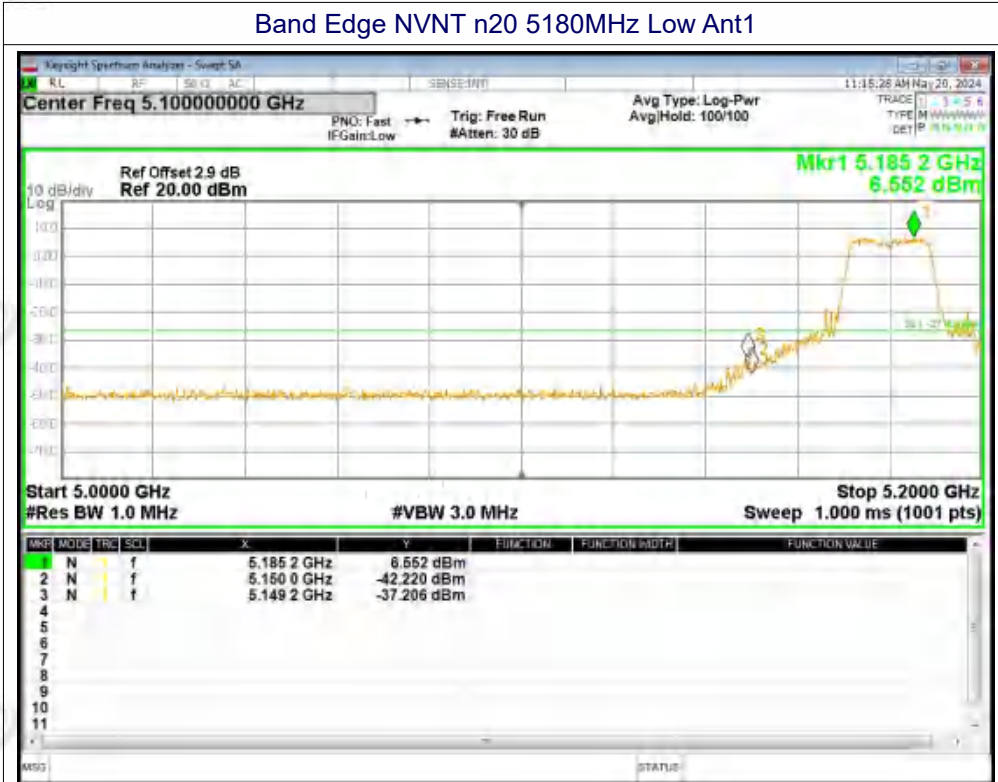


Band Edge NVNT a 5240MHz High Ant2

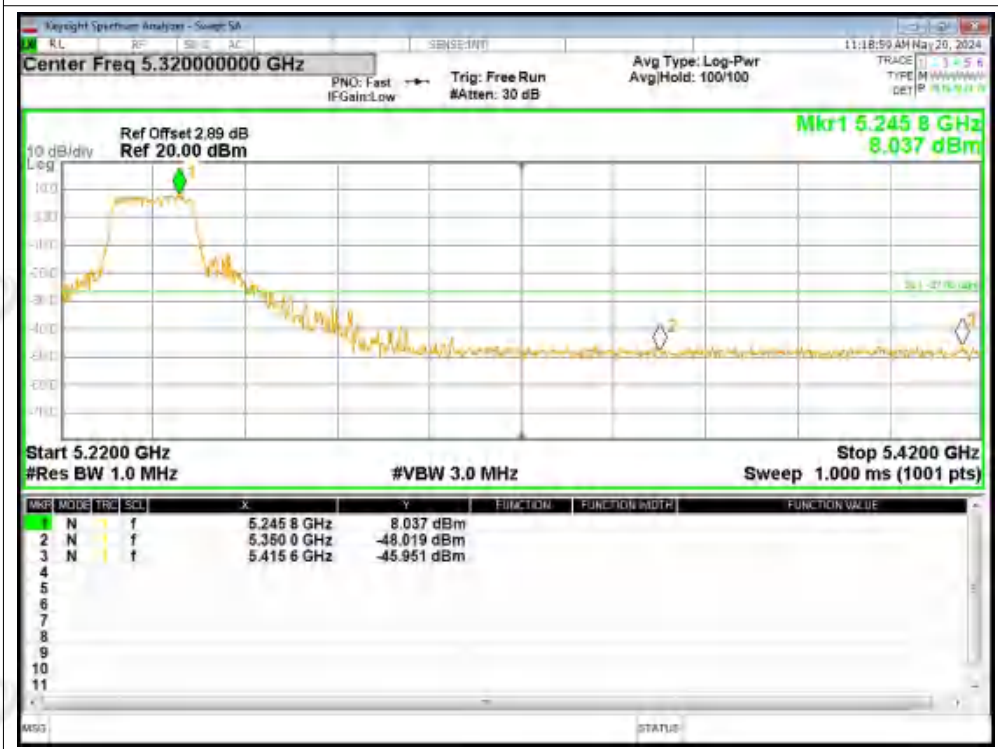




Band Edge NVNT n20 5180MHz Low Ant1



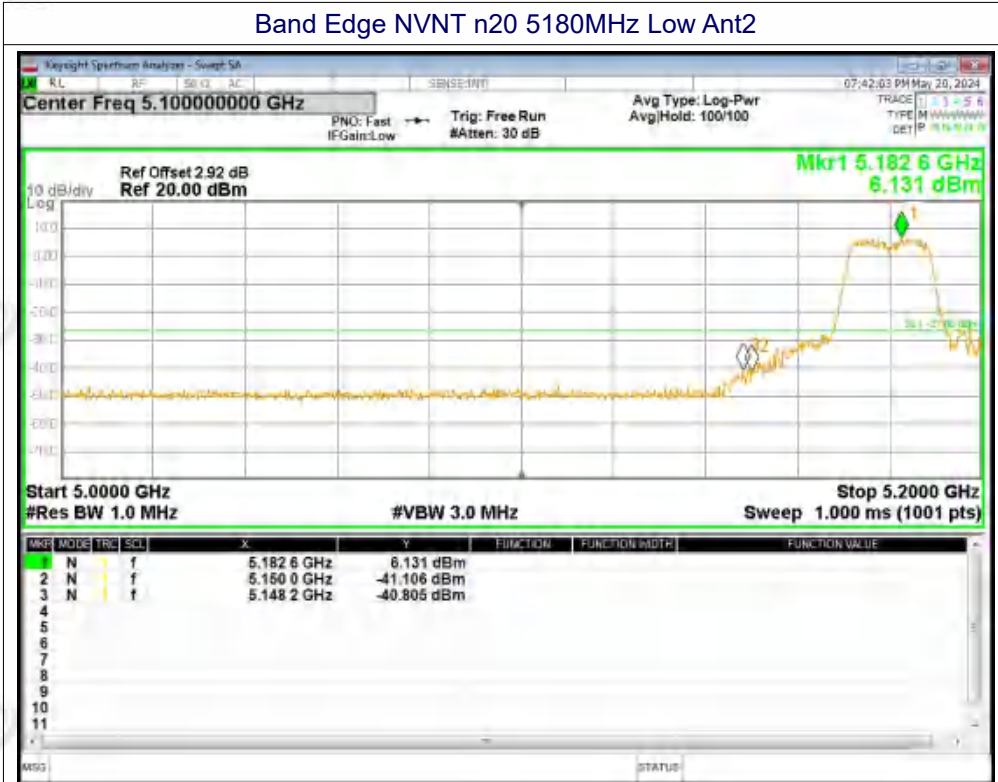
Band Edge NVNT n20 5240MHz High Ant1



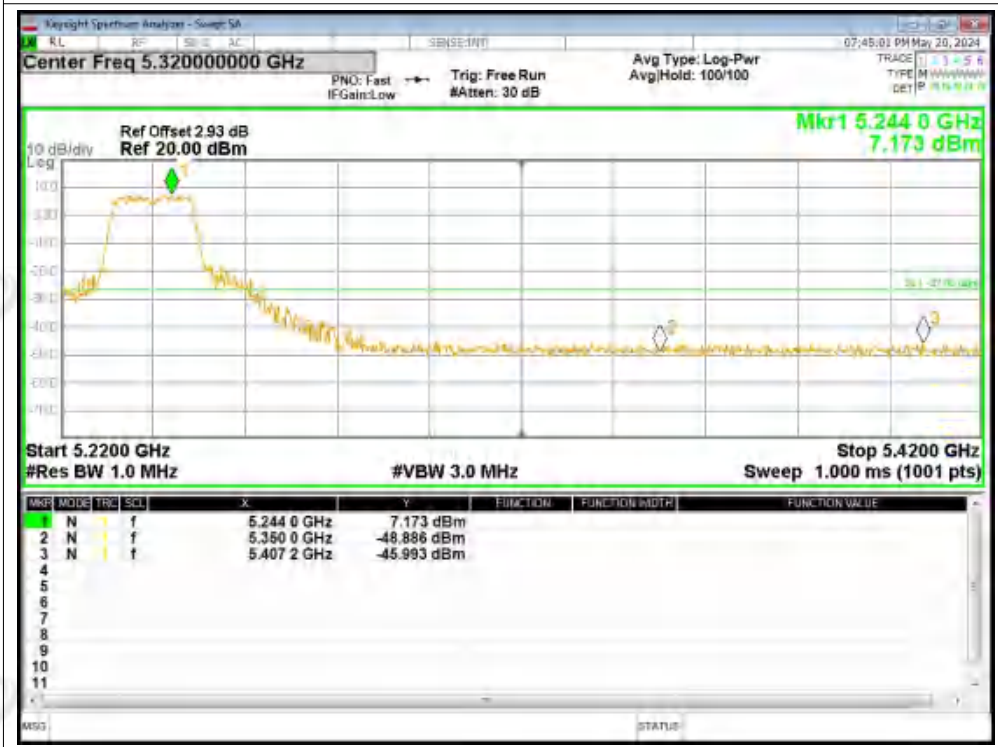




Band Edge NVNT n20 5180MHz Low Ant2

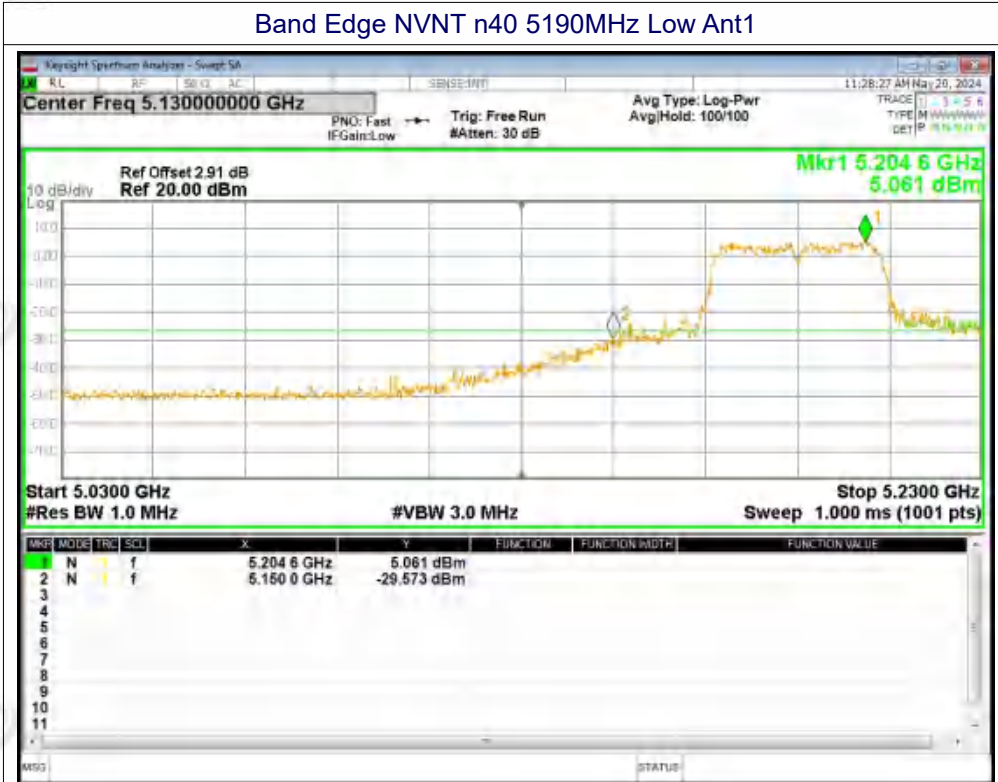


Band Edge NVNT n20 5240MHz High Ant2

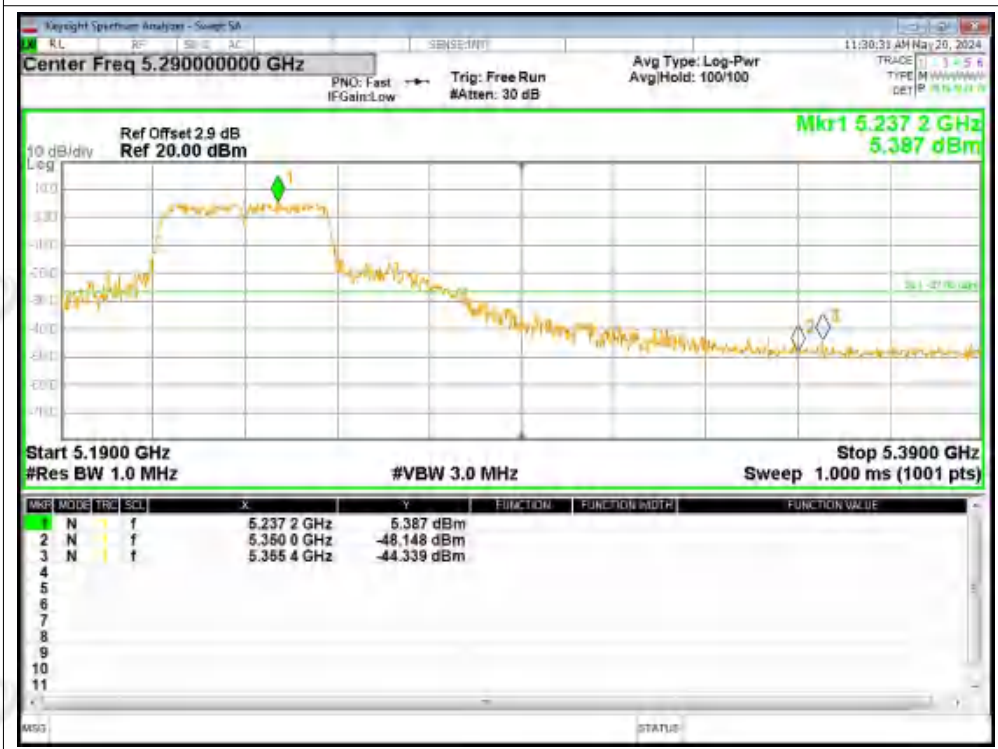




Band Edge NVNT n40 5190MHz Low Ant1

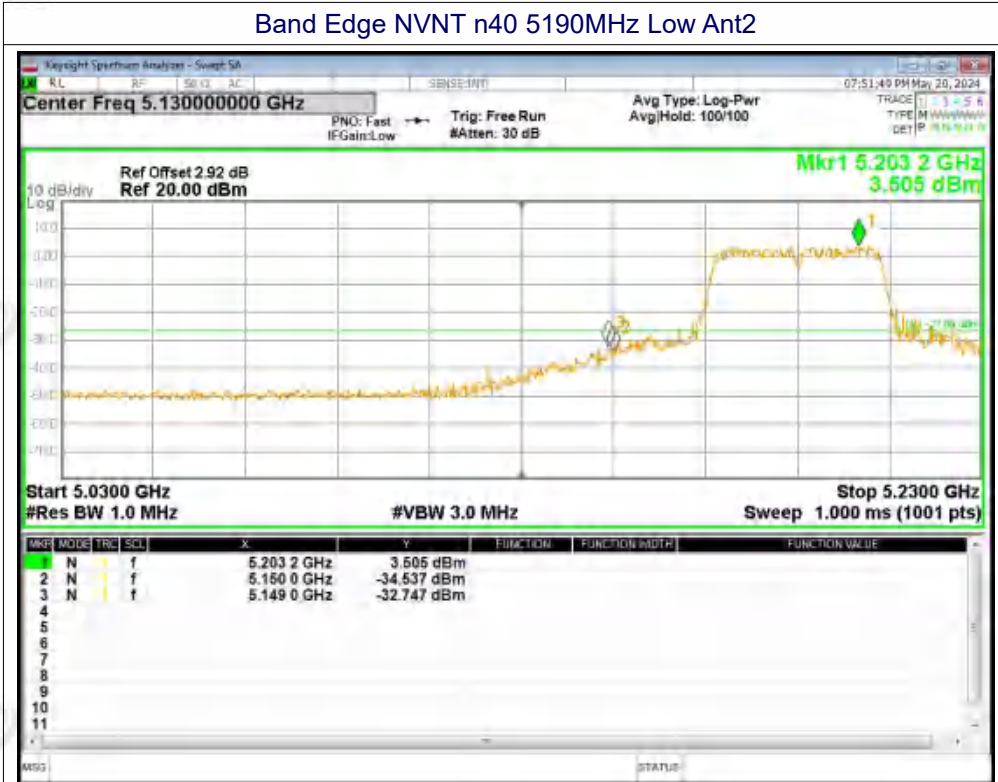


Band Edge NVNT n40 5230MHz High Ant1

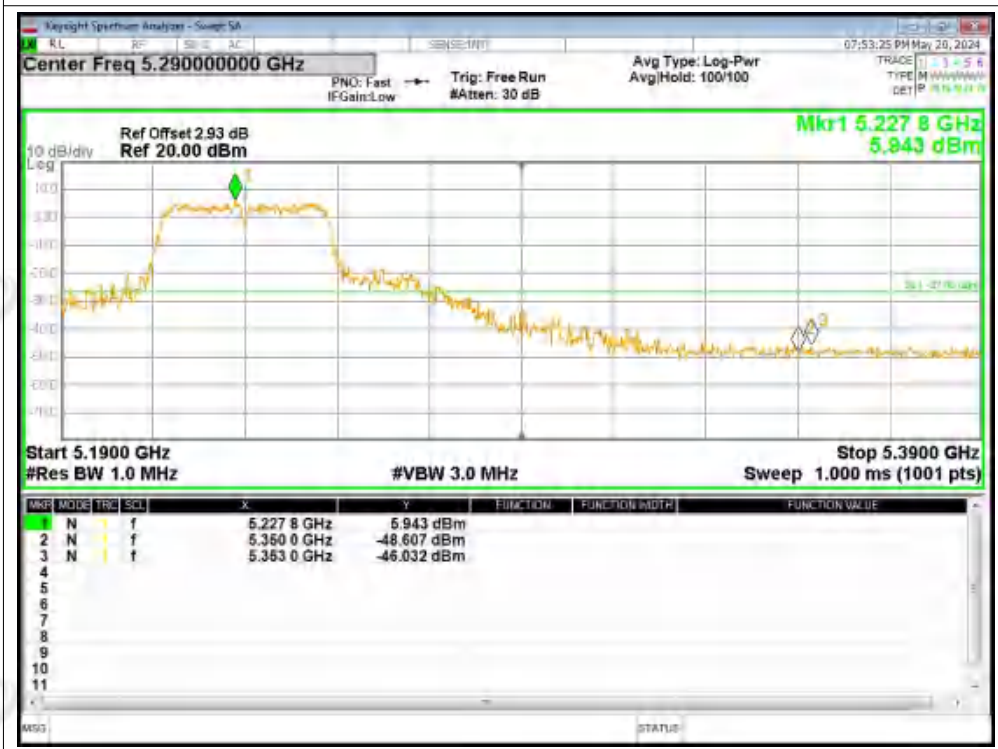




Band Edge NVNT n40 5190MHz Low Ant2

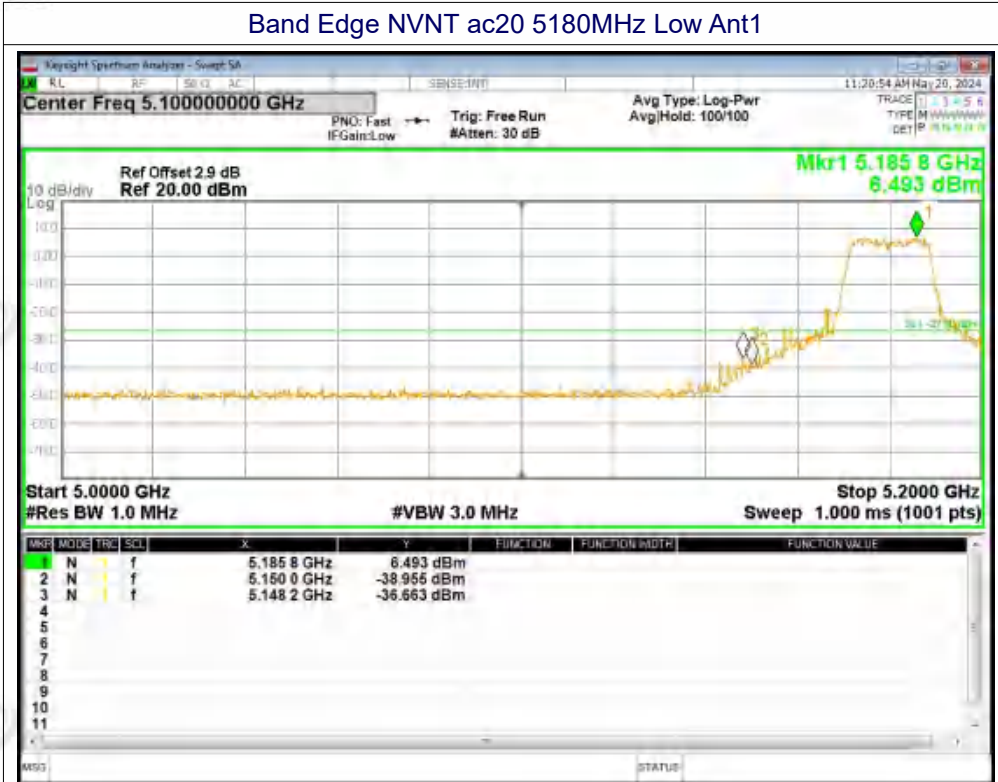


Band Edge NVNT n40 5230MHz High Ant2

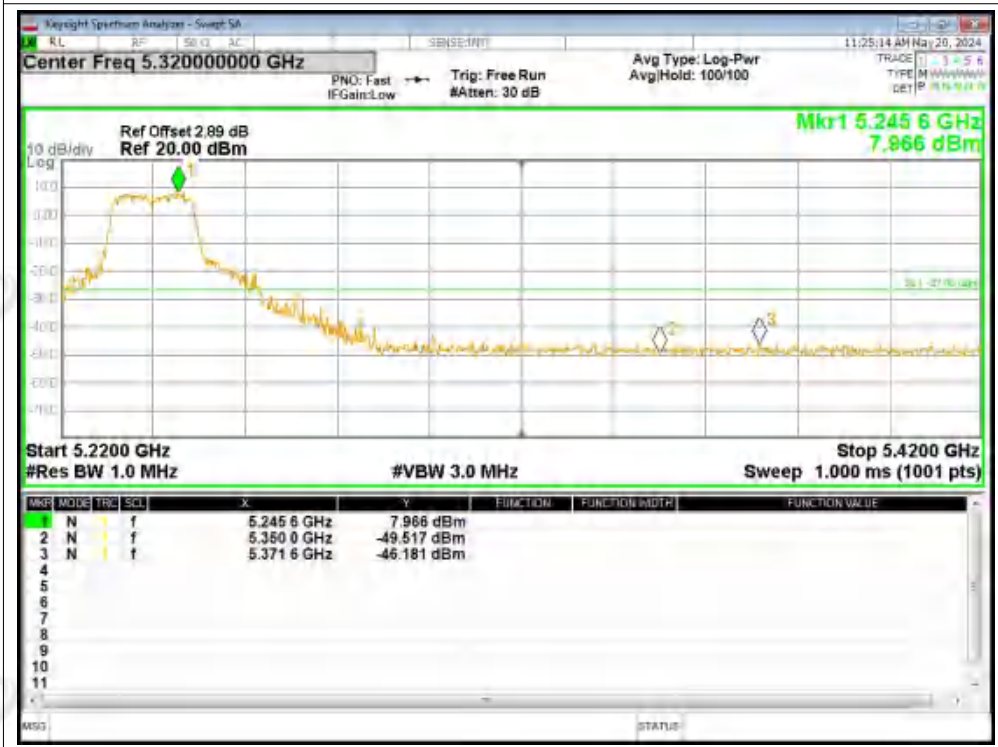




Band Edge NVNT ac20 5180MHz Low Ant1

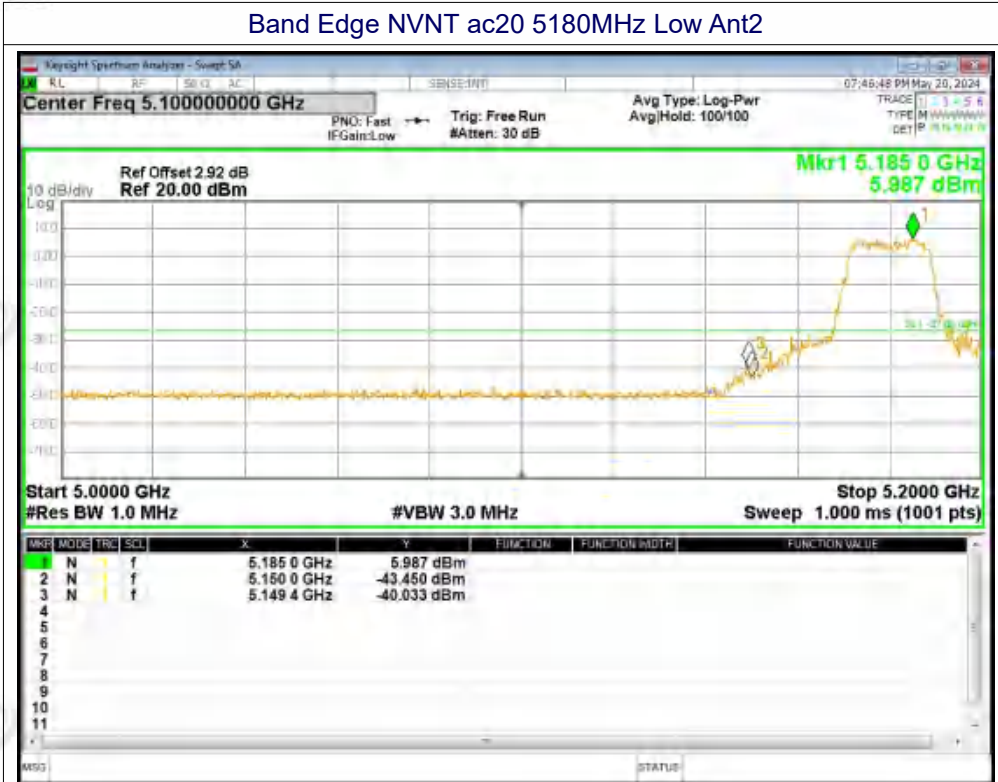


Band Edge NVNT ac20 5240MHz High Ant1

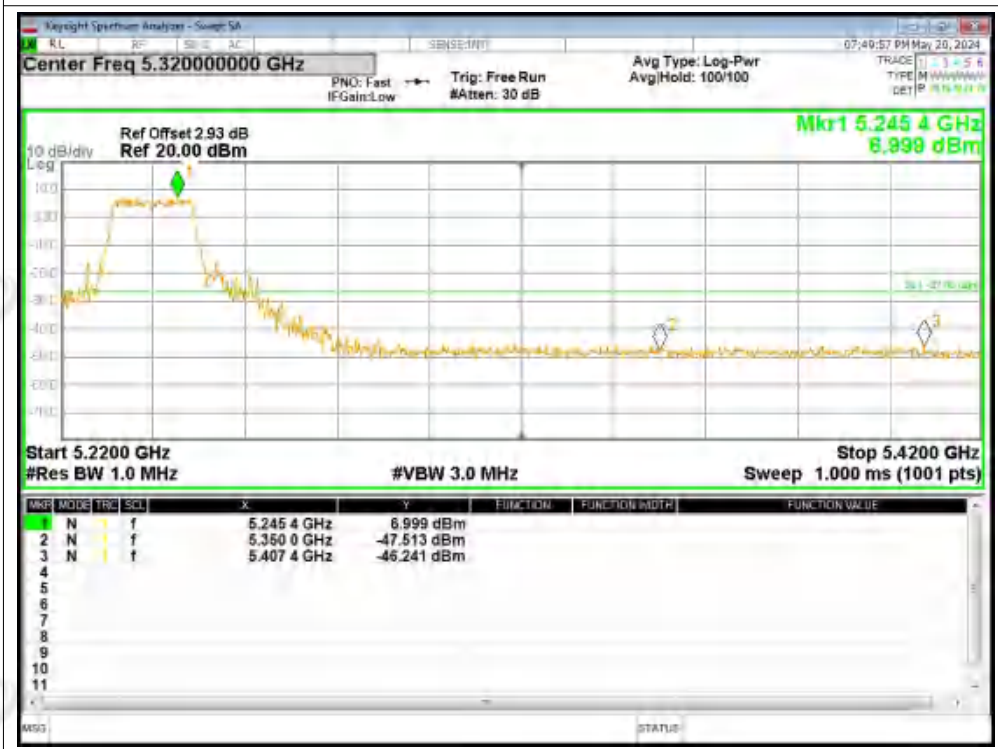




Band Edge NVNT ac20 5180MHz Low Ant2

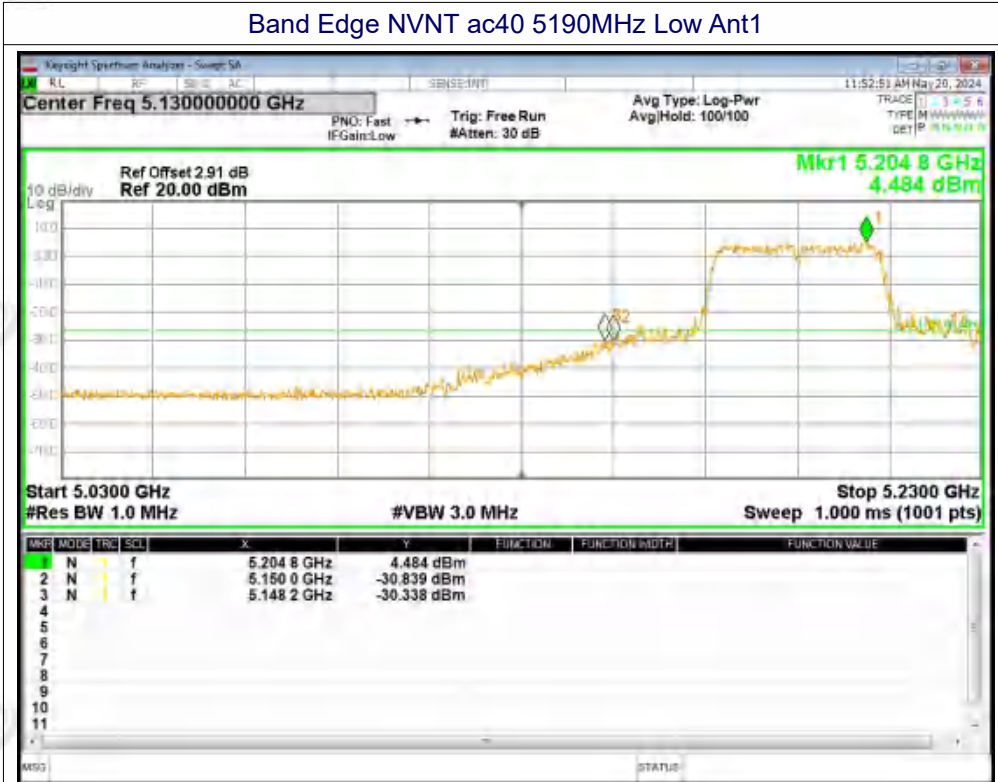


Band Edge NVNT ac20 5240MHz High Ant2





Band Edge NVNT ac40 5190MHz Low Ant1

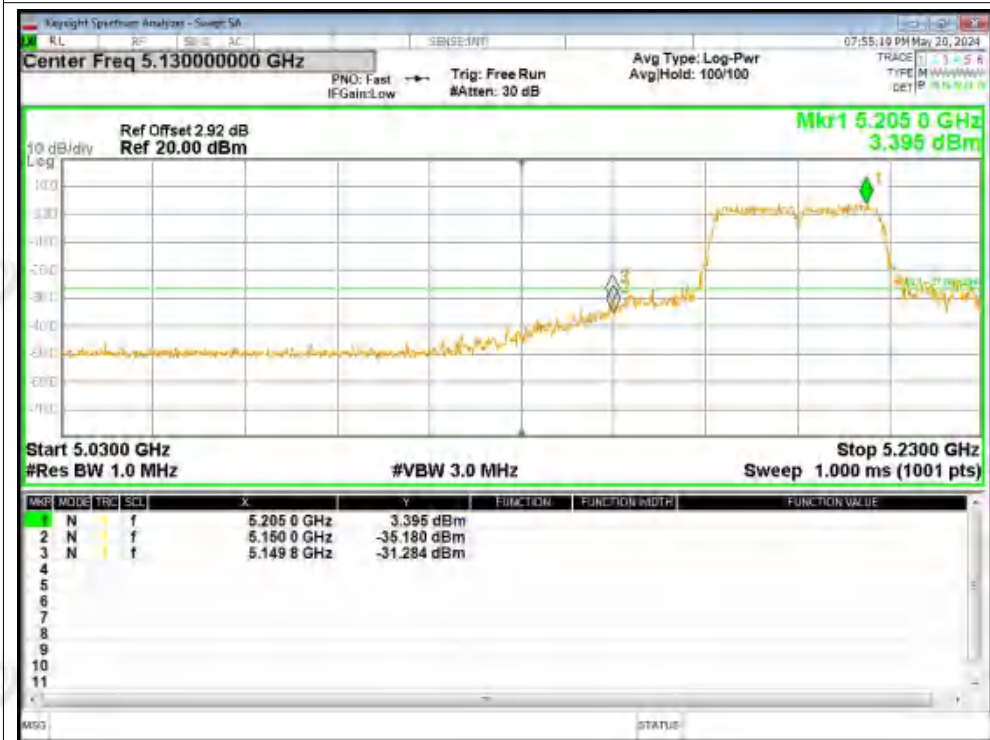


Band Edge NVNT ac40 5230MHz High Ant1





Band Edge NVNT ac40 5190MHz Low Ant2

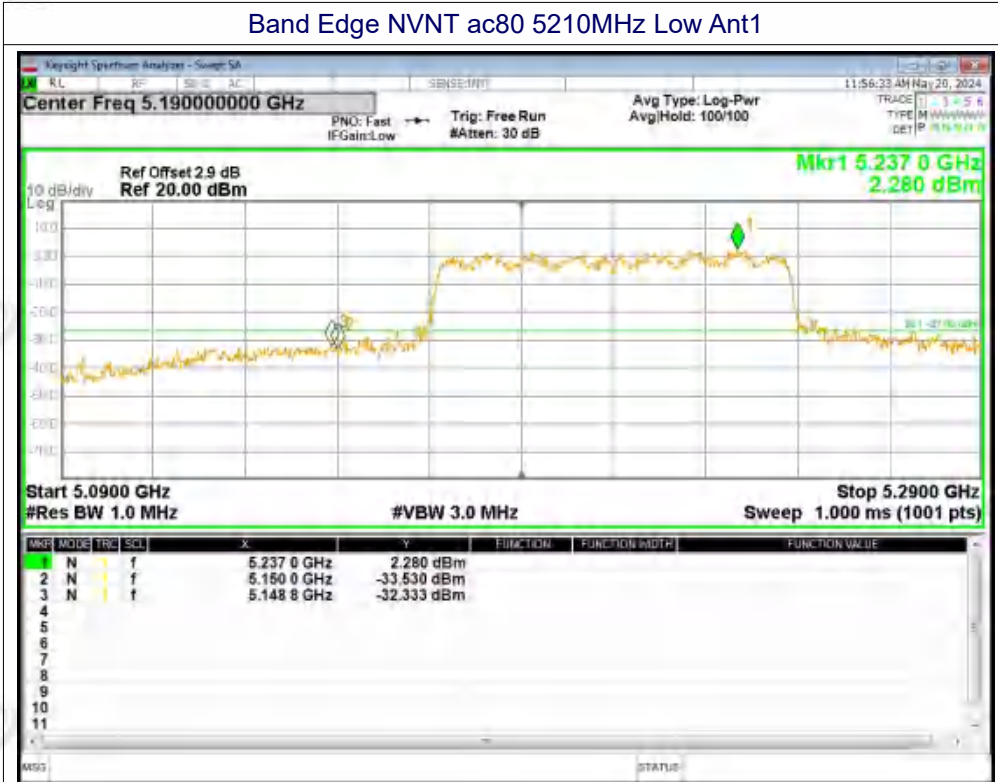


Band Edge NVNT ac40 5230MHz High Ant2

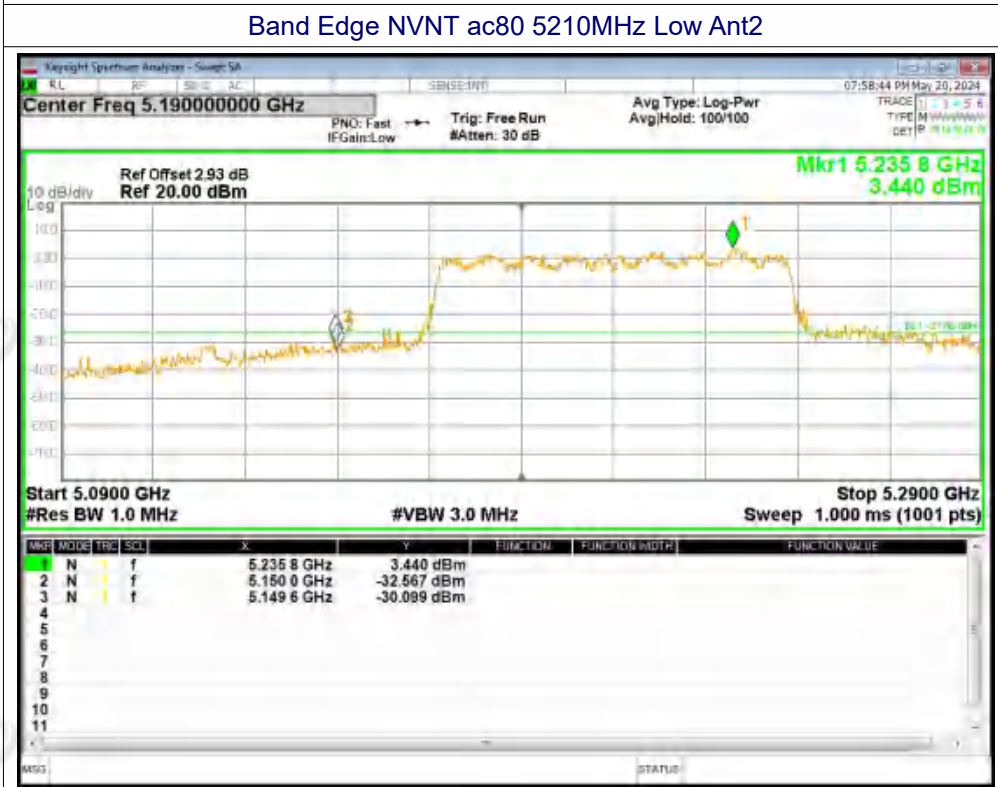




Band Edge NVNT ac80 5210MHz Low Ant1



Band Edge NVNT ac80 5210MHz Low Ant2







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## A7. Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5180	Ant1	5179.98	-20000	-3.86	25	Pass
NVNT	a	5200	Ant1	5200	0	0	25	Pass
NVNT	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
NVNT	a	5180	Ant2	5179.98	-20000	-3.86	25	Pass
NVNT	a	5200	Ant2	5199.98	-20000	-3.85	25	Pass
NVNT	a	5240	Ant2	5239.98	-20000	-3.82	25	Pass
NVNT	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
NVNT	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NVNT	n20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
NVNT	n20	5180	Ant2	5179.96	-40000	-7.72	25	Pass
NVNT	n20	5200	Ant2	5199.98	-20000	-3.85	25	Pass
NVNT	n20	5240	Ant2	5239.98	-20000	-3.82	25	Pass
NVNT	n40	5190	Ant1	5190	0	0	25	Pass
NVNT	n40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
NVNT	n40	5190	Ant2	5190	0	0	25	Pass
NVNT	n40	5230	Ant2	5230	0	0	25	Pass
NVNT	ac20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
NVNT	ac20	5200	Ant1	5200	0	0	25	Pass
NVNT	ac20	5240	Ant1	5240	0	0	25	Pass
NVNT	ac20	5180	Ant2	5179.98	-20000	-3.86	25	Pass
NVNT	ac20	5200	Ant2	5199.96	-40000	-7.69	25	Pass
NVNT	ac20	5240	Ant2	5239.98	-20000	-3.82	25	Pass
NVNT	ac40	5190	Ant1	5190	0	0	25	Pass
NVNT	ac40	5230	Ant1	5230	0	0	25	Pass
NVNT	ac40	5190	Ant2	5190	0	0	25	Pass
NVNT	ac40	5230	Ant2	5230	0	0	25	Pass
NVNT	ac80	5210	Ant1	5210	0	0	25	Pass
NVNT	ac80	5210	Ant2	5210	0	0	25	Pass

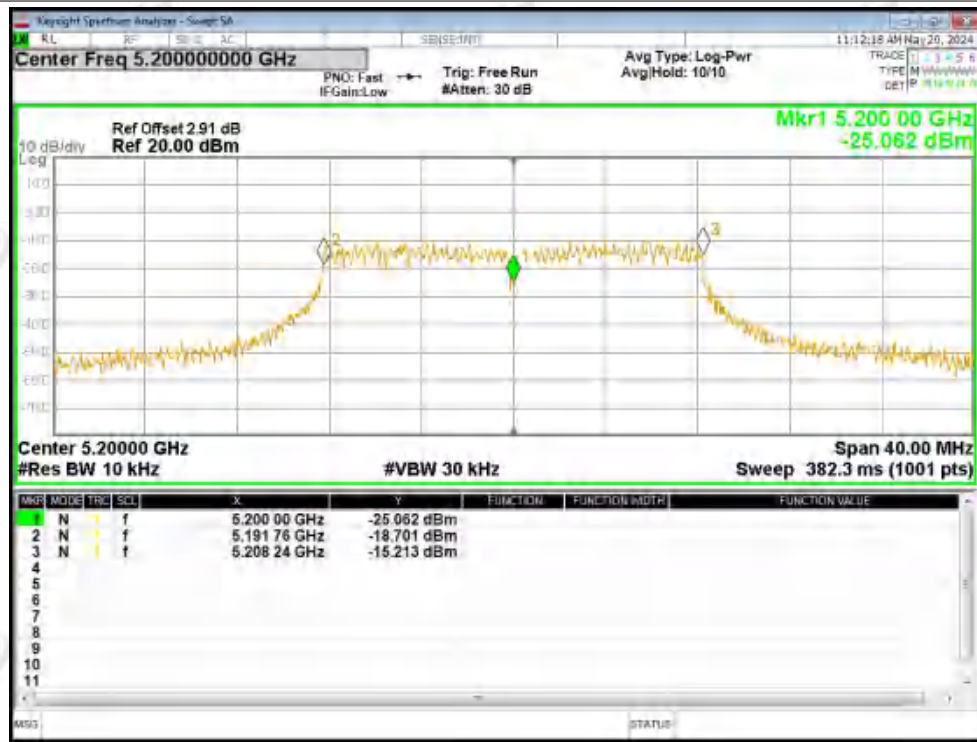


Test Graphs

Freq. Stability NVNT a 5180MHz Ant1

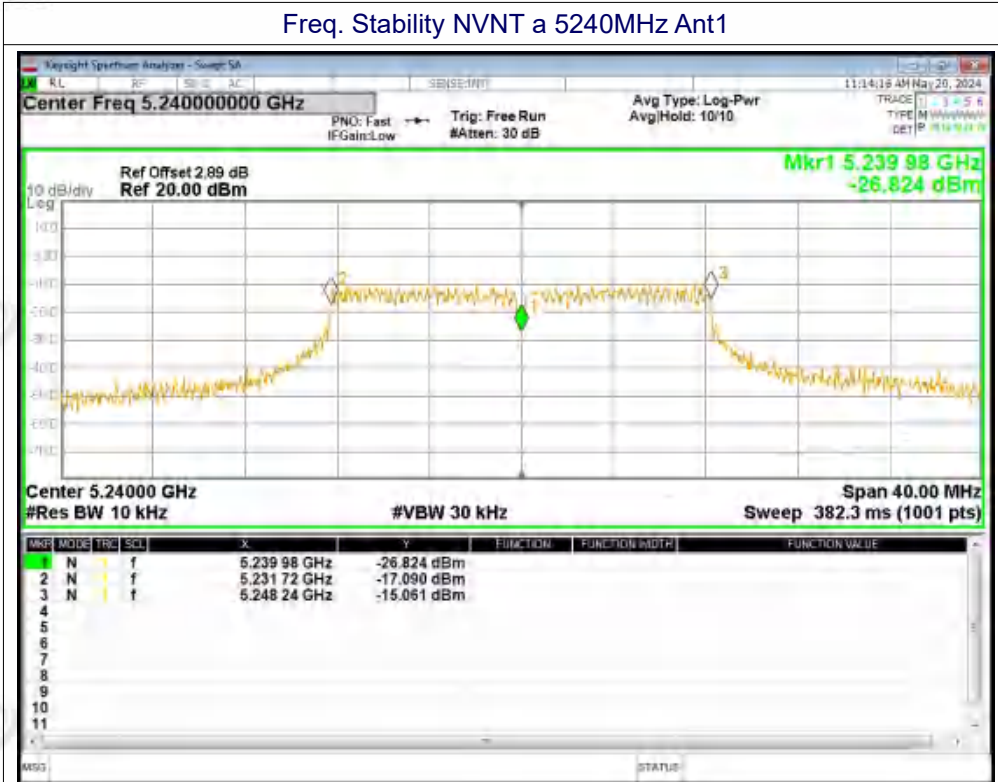


Freq. Stability NVNT a 5200MHz Ant1

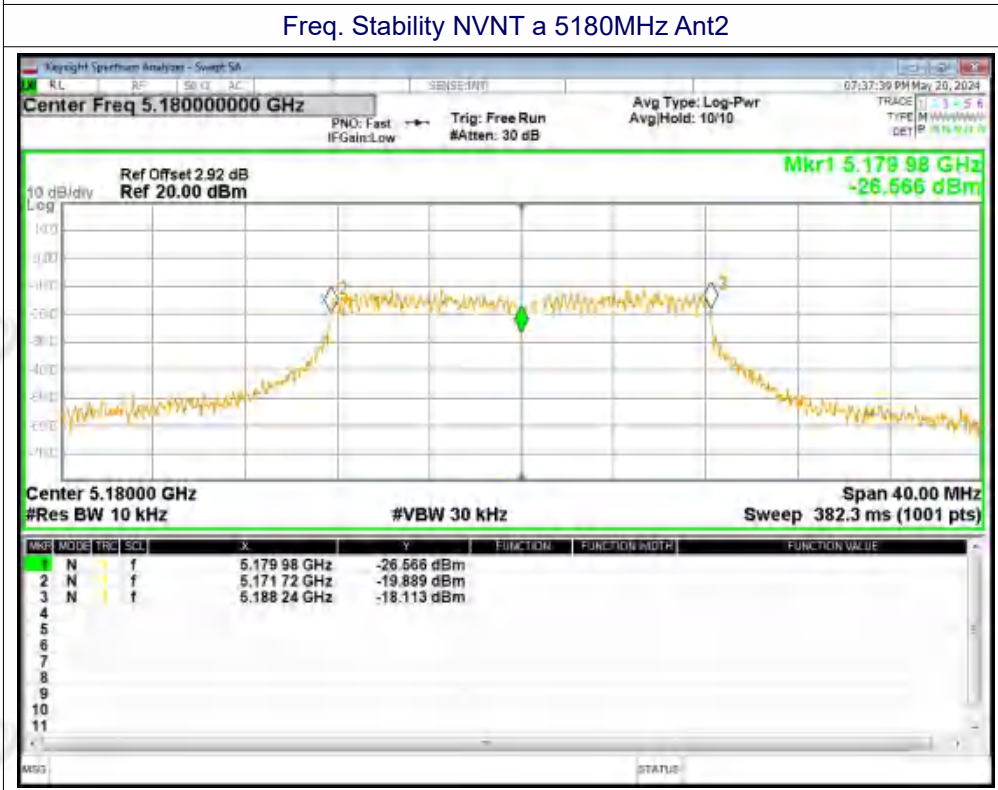




Freq. Stability NVNT a 5240MHz Ant1

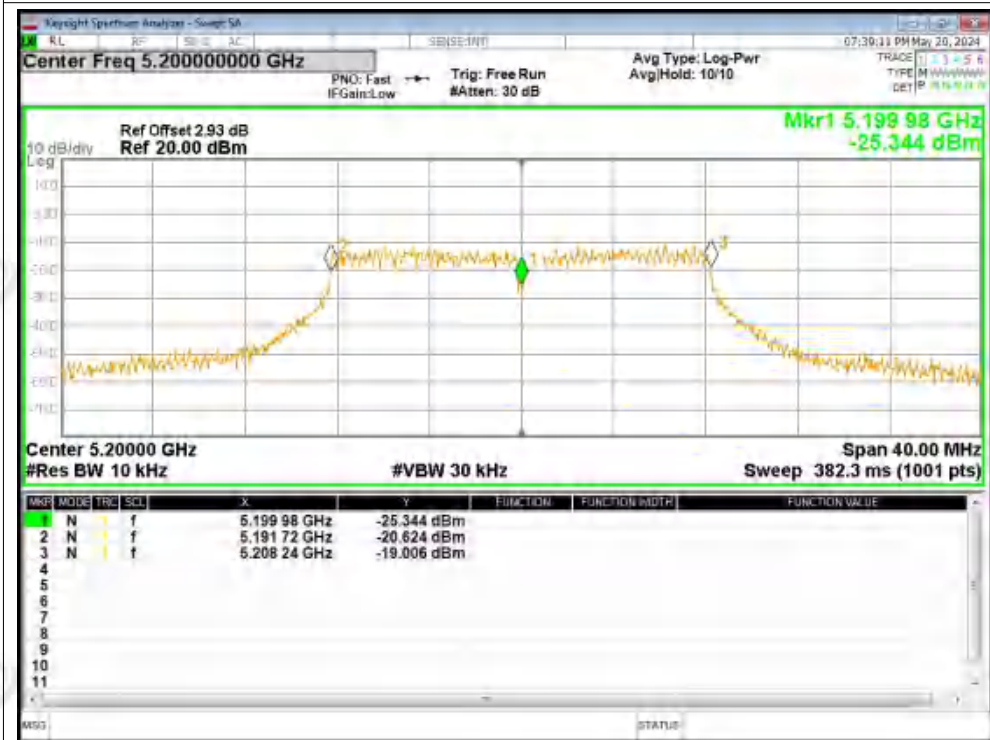


Freq. Stability NVNT a 5180MHz Ant2





Freq. Stability NVNT a 5200MHz Ant2

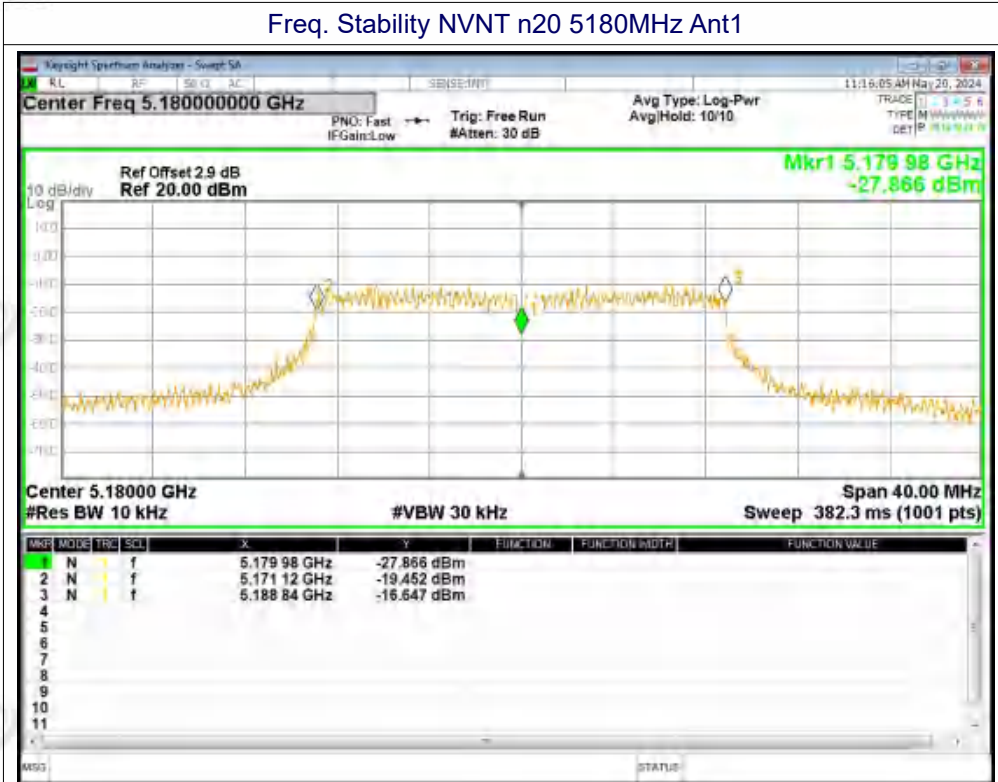


Freq. Stability NVNT a 5240MHz Ant2

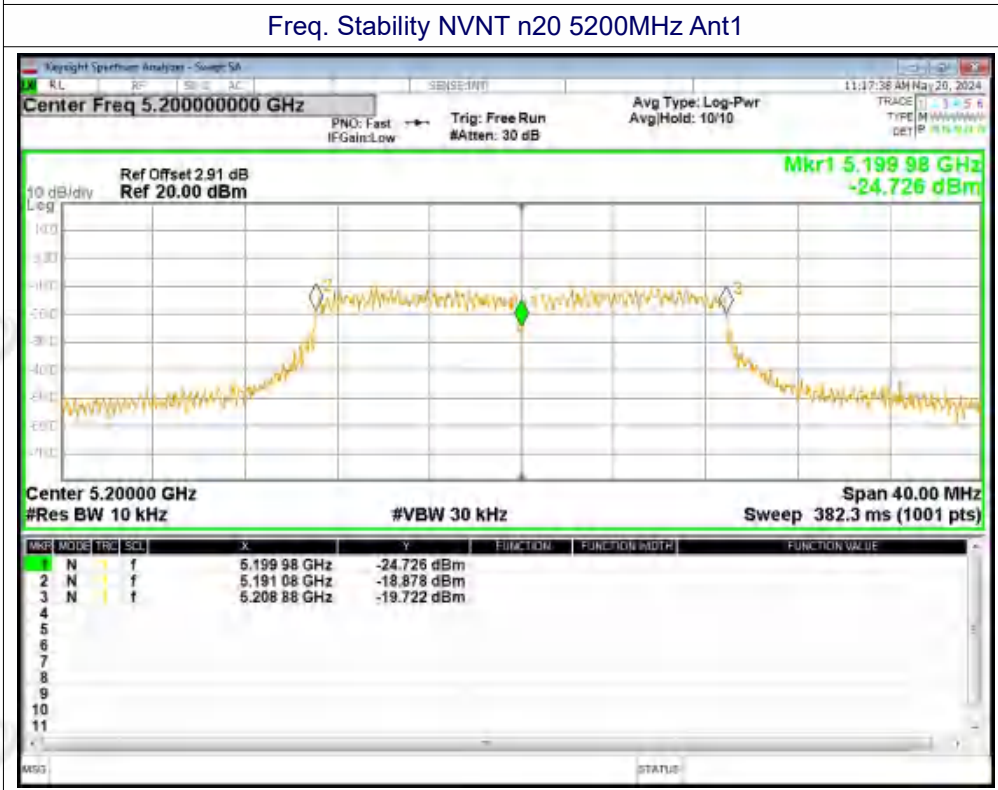




Freq. Stability NVNT n20 5180MHz Ant1



Freq. Stability NVNT n20 5200MHz Ant1





Freq. Stability NVNT n20 5240MHz Ant1

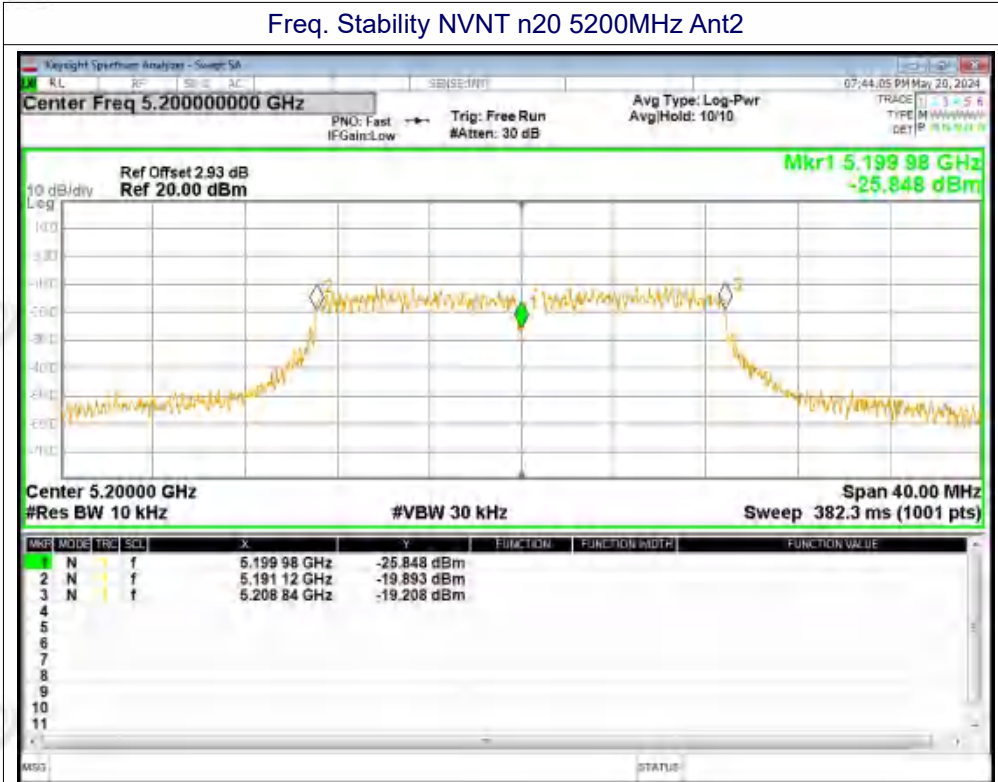


Freq. Stability NVNT n20 5180MHz Ant2

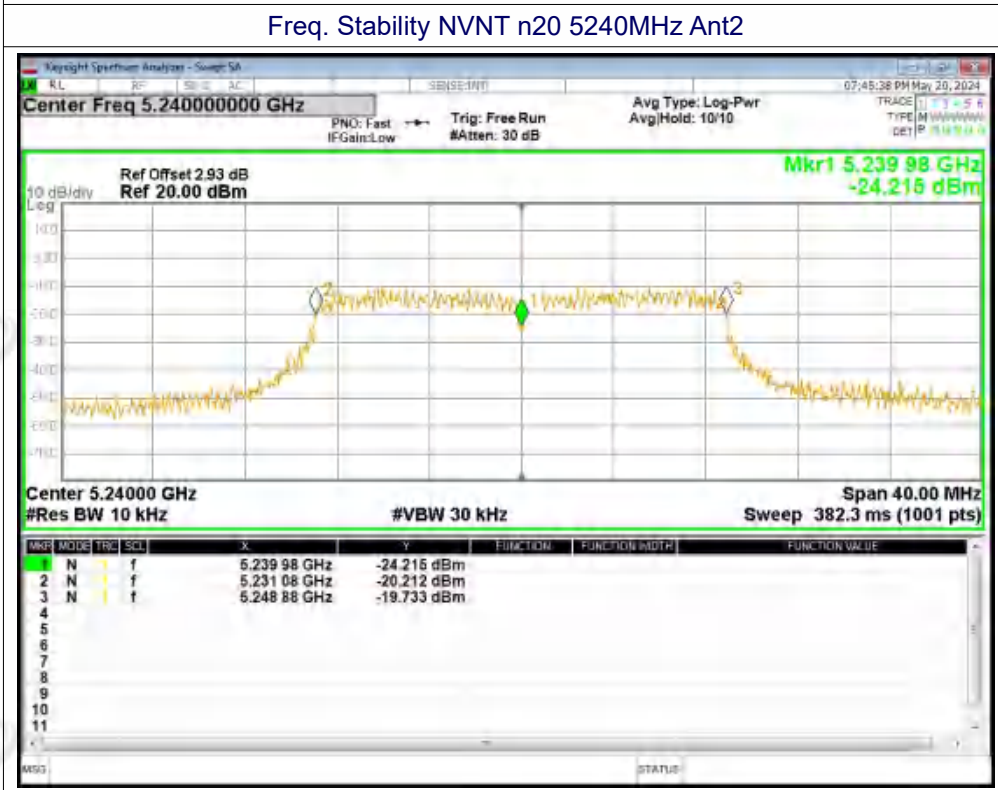




Freq. Stability NVNT n20 5200MHz Ant2

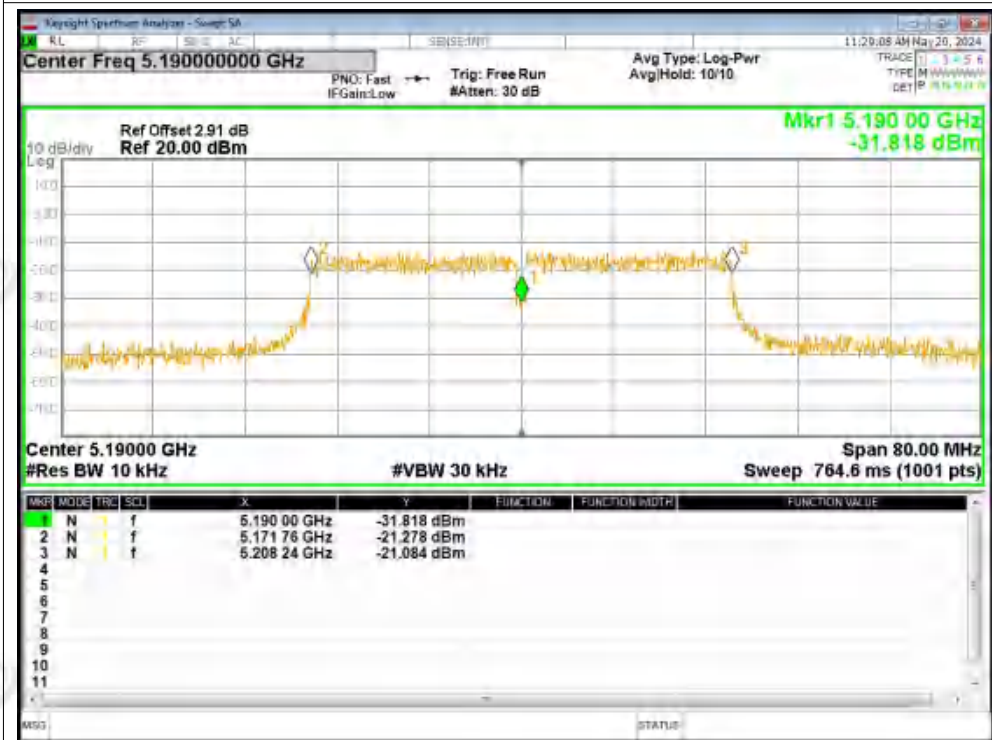


Freq. Stability NVNT n20 5240MHz Ant2





Freq. Stability NVNT n40 5190MHz Ant1



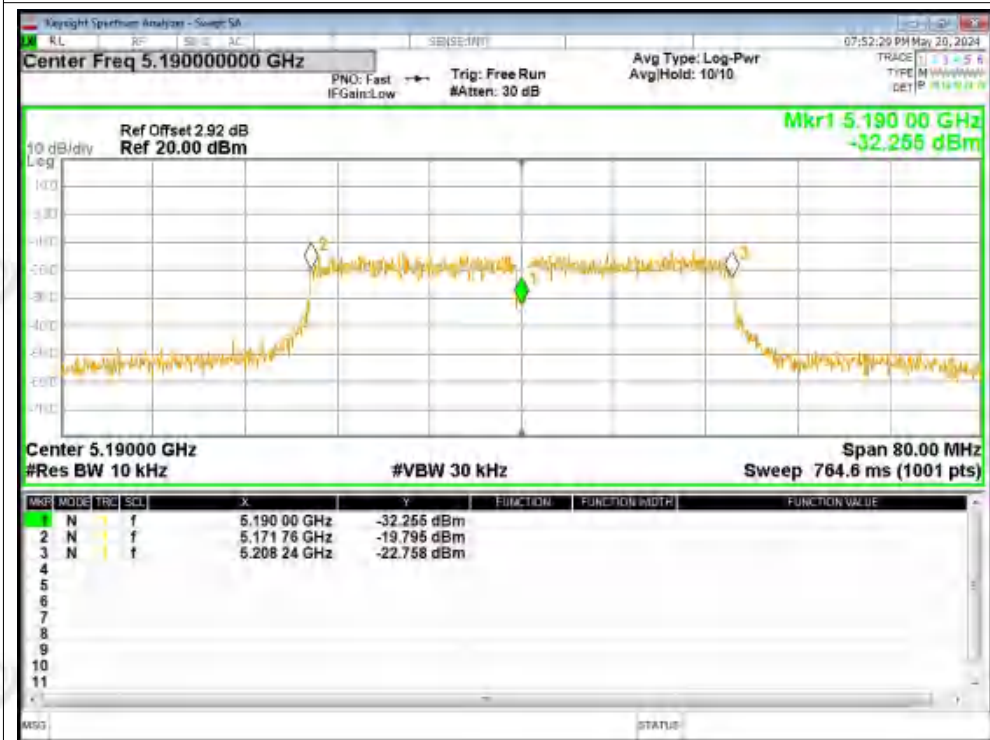
Freq. Stability NVNT n40 5230MHz Ant1







Freq. Stability NVNT n40 5190MHz Ant2

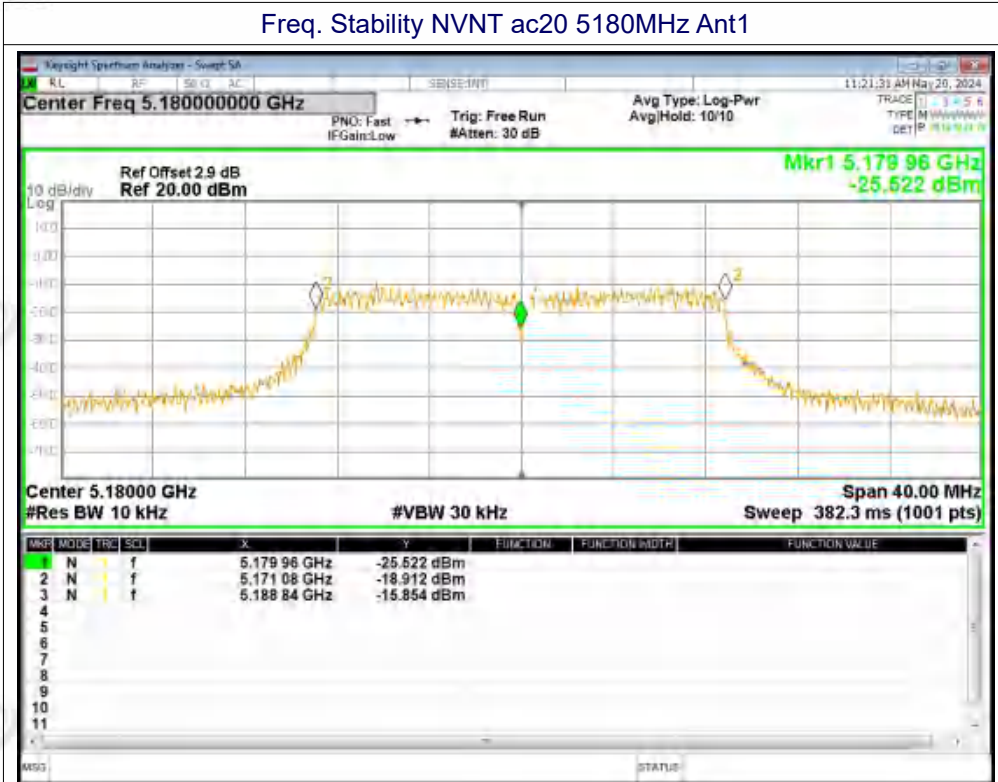


Freq. Stability NVNT n40 5230MHz Ant2

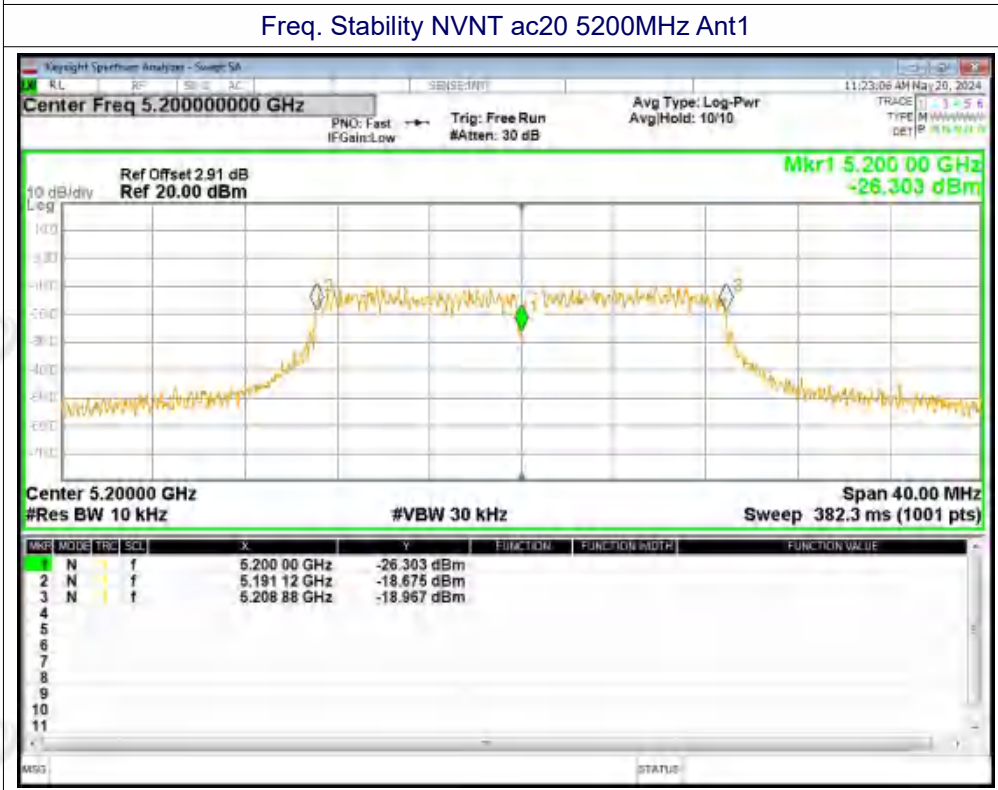




Freq. Stability NVNT ac20 5180MHz Ant1

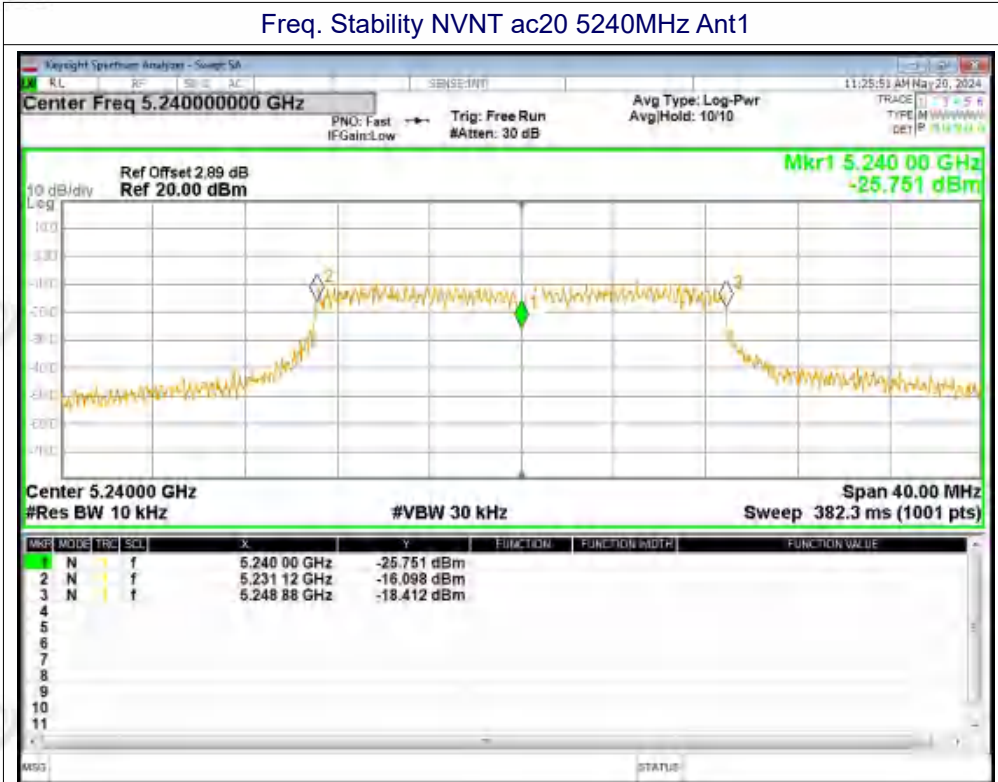


Freq. Stability NVNT ac20 5200MHz Ant1

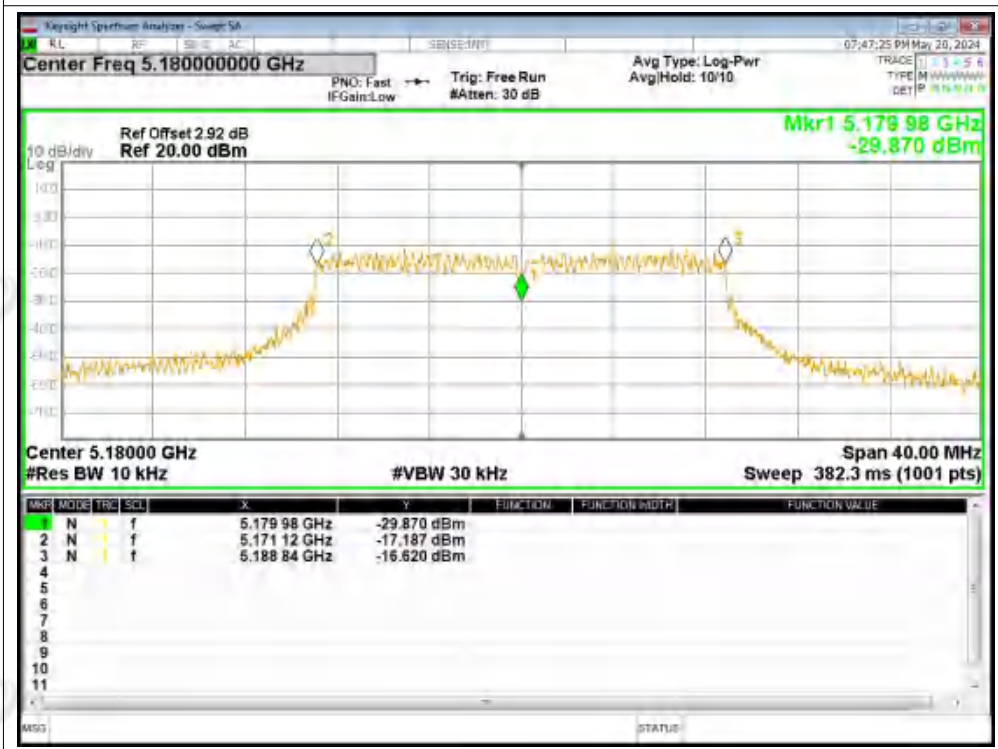




Freq. Stability NVNT ac20 5240MHz Ant1

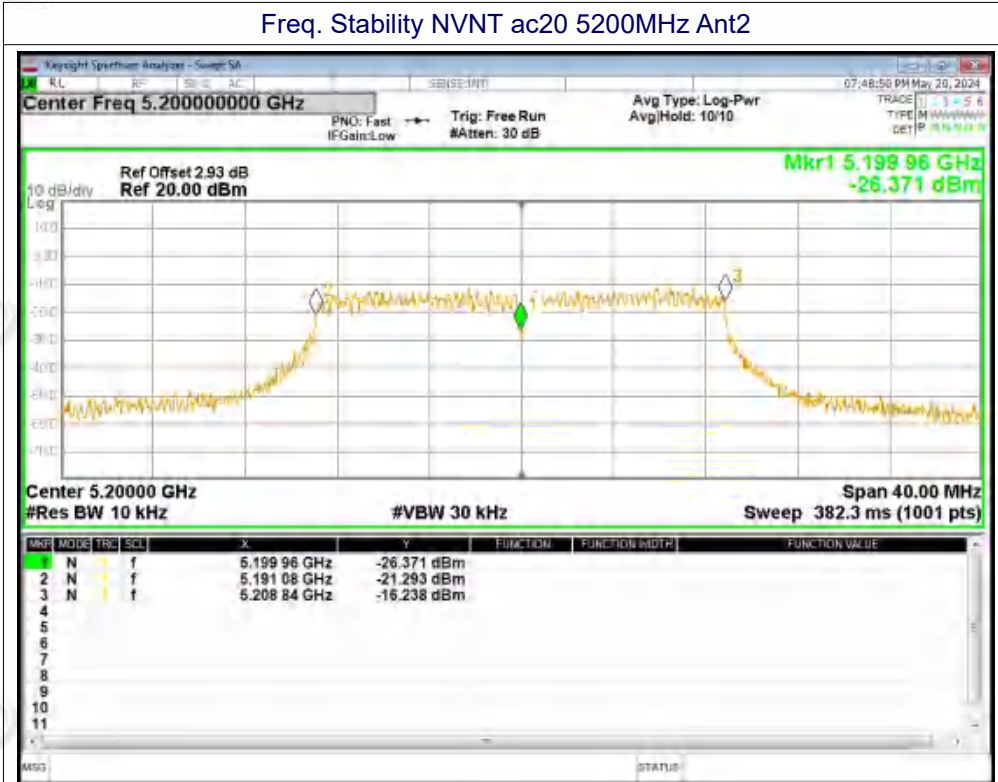


Freq. Stability NVNT ac20 5180MHz Ant2

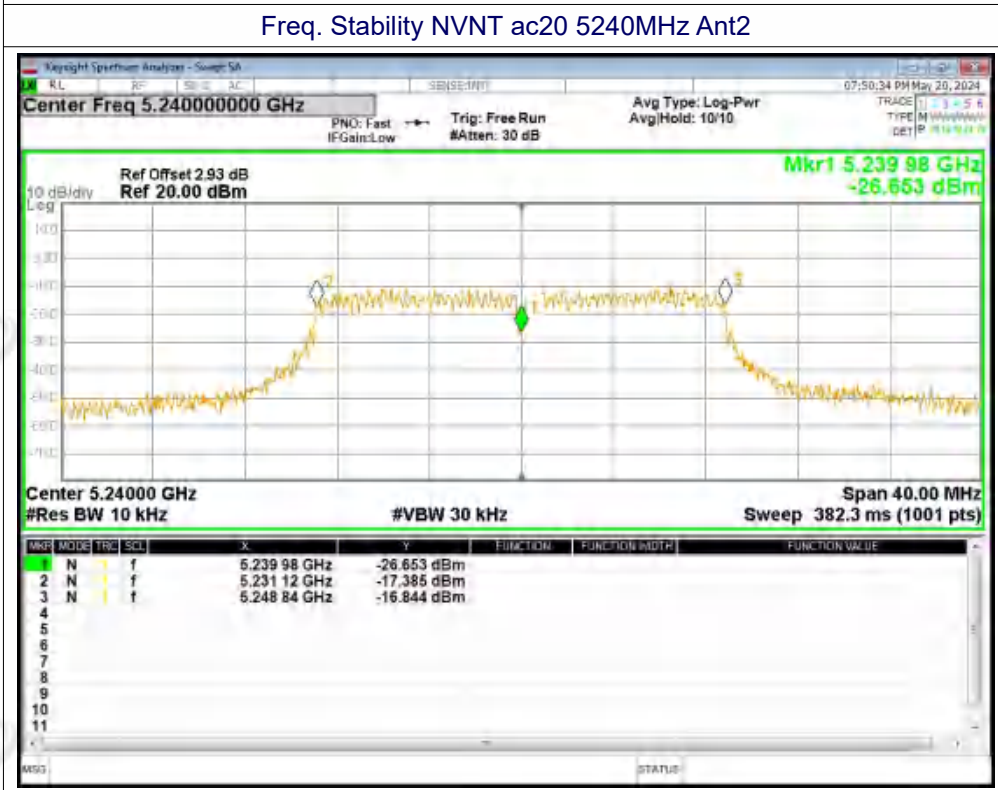




Freq. Stability NVNT ac20 5200MHz Ant2

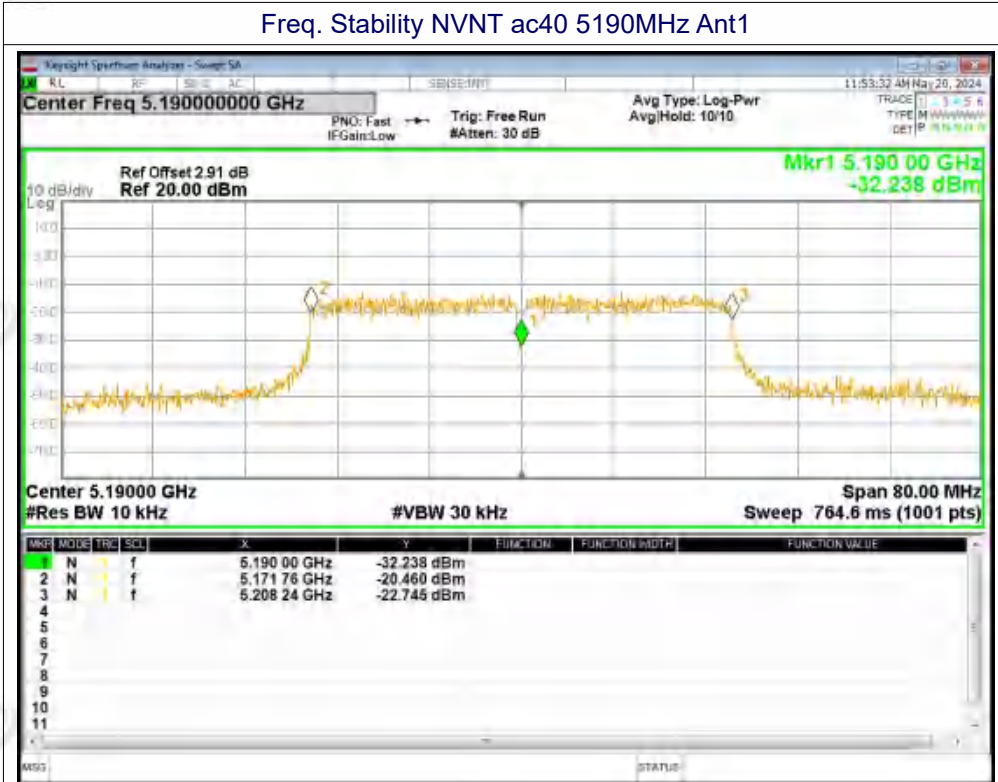


Freq. Stability NVNT ac20 5240MHz Ant2

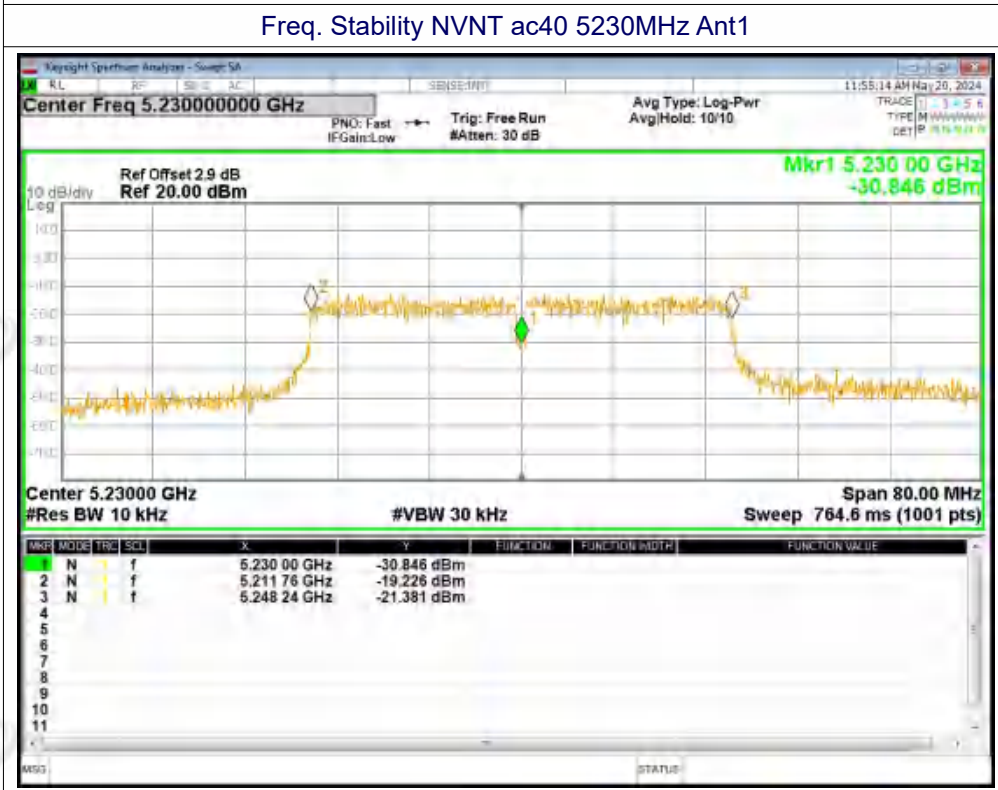




Freq. Stability NVNT ac40 5190MHz Ant1



Freq. Stability NVNT ac40 5230MHz Ant1

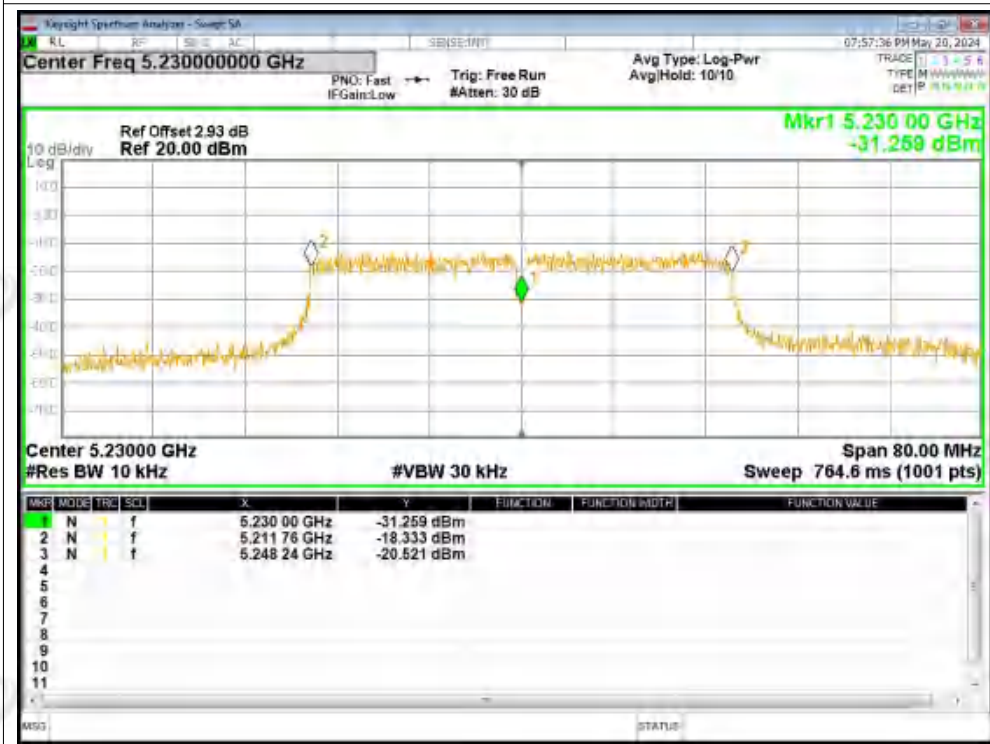




Freq. Stability NVNT ac40 5190MHz Ant2

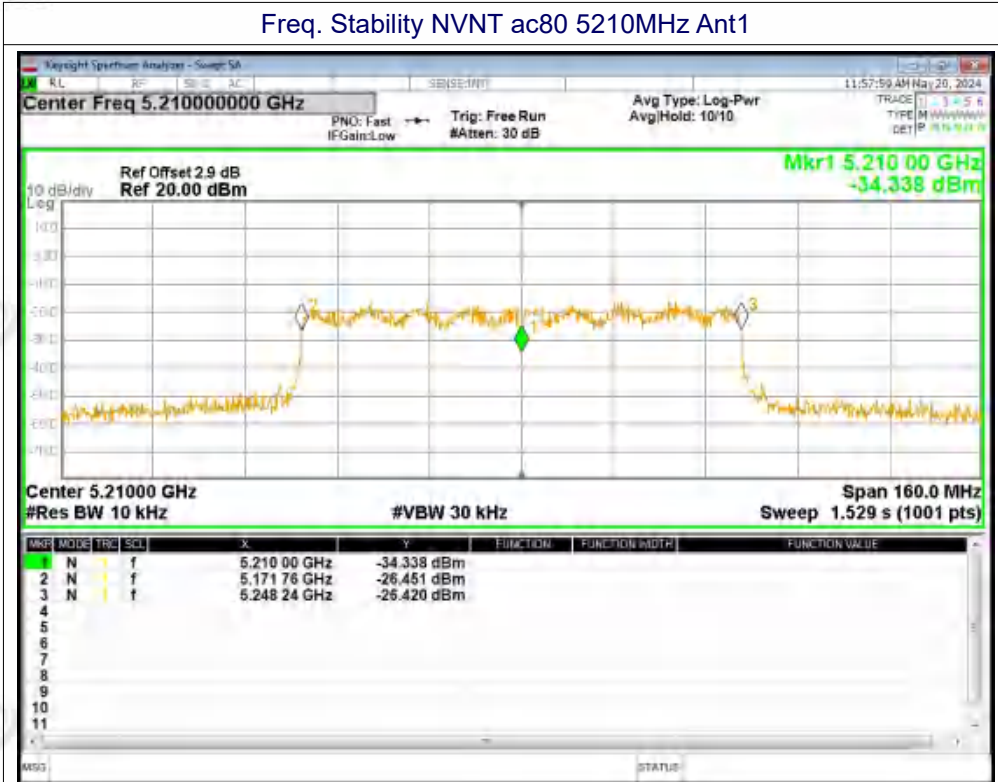


Freq. Stability NVNT ac40 5230MHz Ant2

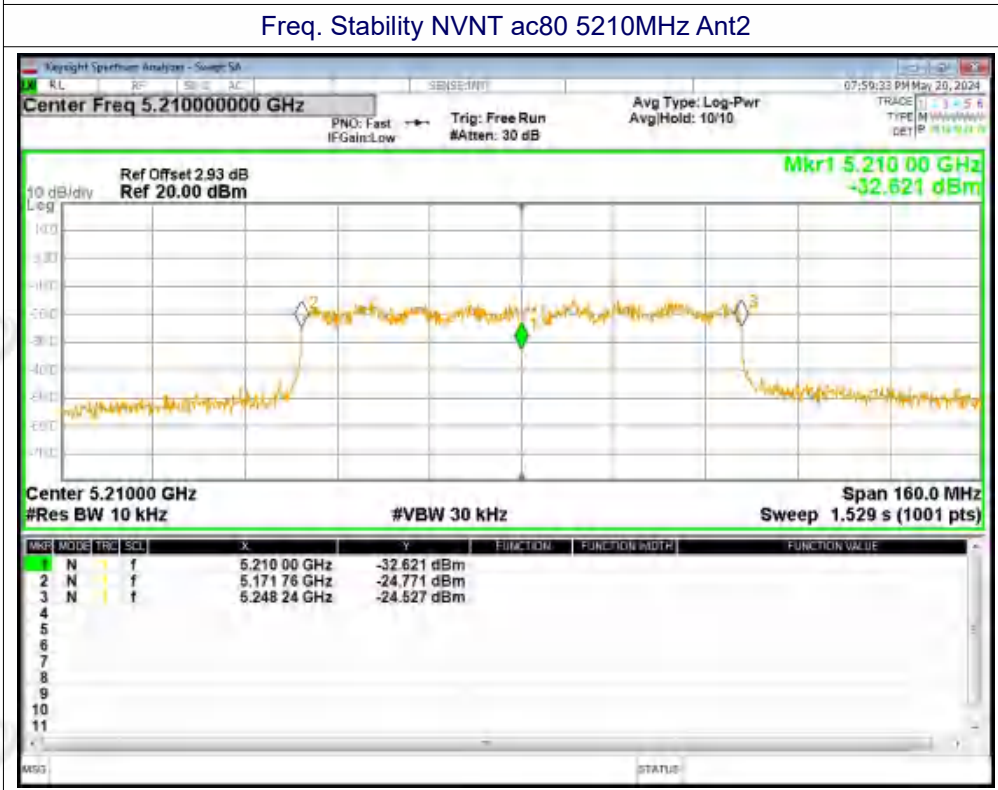




Freq. Stability NVNT ac80 5210MHz Ant1



Freq. Stability NVNT ac80 5210MHz Ant2





## ZHONGHAN

## A8. Conducted RF Spurious Emission

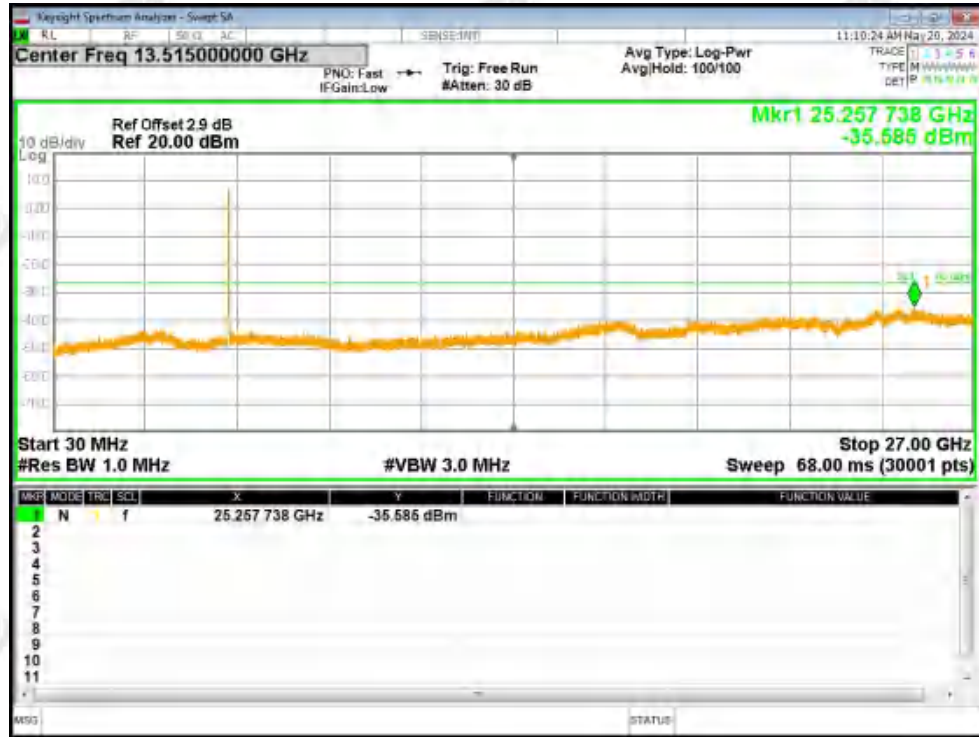
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-35.58	-27	Pass
NVNT	a	5200	Ant1	-35.68	-27	Pass
NVNT	a	5240	Ant1	-35.86	-27	Pass
NVNT	a	5180	Ant2	-35.38	-27	Pass
NVNT	a	5200	Ant2	-35.62	-27	Pass
NVNT	a	5240	Ant2	-35.88	-27	Pass
NVNT	n20	5180	Ant1	-34.61	-27	Pass
NVNT	n20	5200	Ant1	-35.28	-27	Pass
NVNT	n20	5240	Ant1	-35.37	-27	Pass
NVNT	n20	5180	Ant2	-36.12	-27	Pass
NVNT	n20	5200	Ant2	-35.75	-27	Pass
NVNT	n20	5240	Ant2	-35.69	-27	Pass
NVNT	n40	5190	Ant1	-35.68	-27	Pass
NVNT	n40	5230	Ant1	-35.76	-27	Pass
NVNT	n40	5190	Ant2	-35.2	-27	Pass
NVNT	n40	5230	Ant2	-35.77	-27	Pass
NVNT	ac20	5180	Ant1	-35.61	-27	Pass
NVNT	ac20	5200	Ant1	-34.51	-27	Pass
NVNT	ac20	5240	Ant1	-35.69	-27	Pass
NVNT	ac20	5180	Ant2	-35.83	-27	Pass
NVNT	ac20	5200	Ant2	-35.55	-27	Pass
NVNT	ac20	5240	Ant2	-35.08	-27	Pass
NVNT	ac40	5190	Ant1	-35.82	-27	Pass
NVNT	ac40	5230	Ant1	-35.56	-27	Pass
NVNT	ac40	5190	Ant2	-36.05	-27	Pass
NVNT	ac40	5230	Ant2	-35.82	-27	Pass
NVNT	ac80	5210	Ant1	-35.6	-27	Pass
NVNT	ac80	5210	Ant2	-34.81	-27	Pass



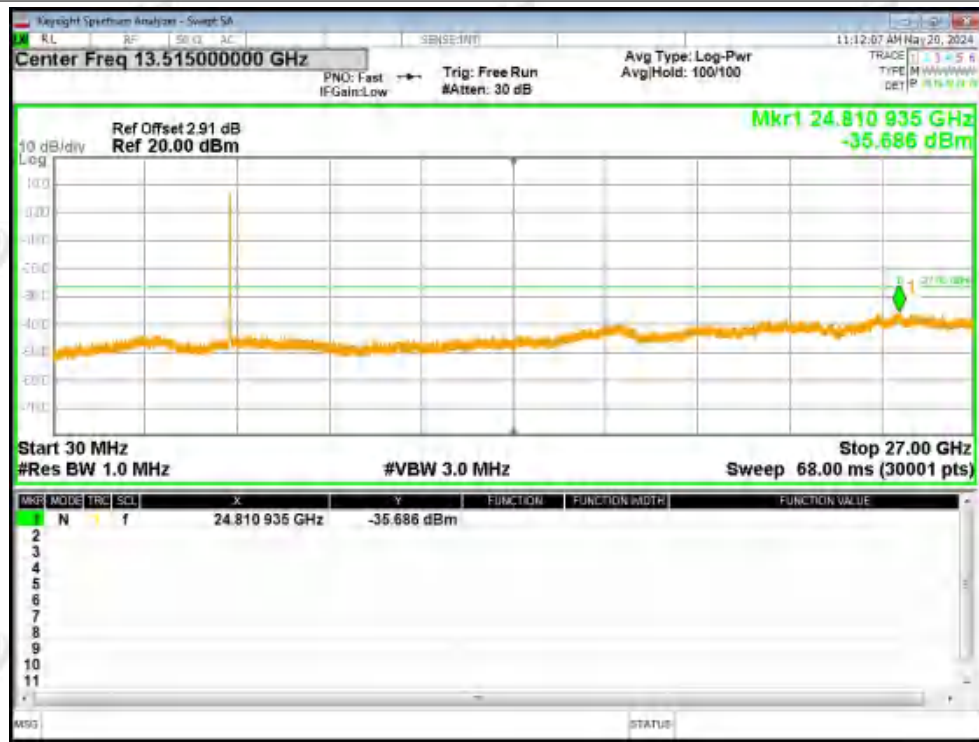


Test Graphs

Tx. Spurious NVNT a 5180MHz Ant1 Emission

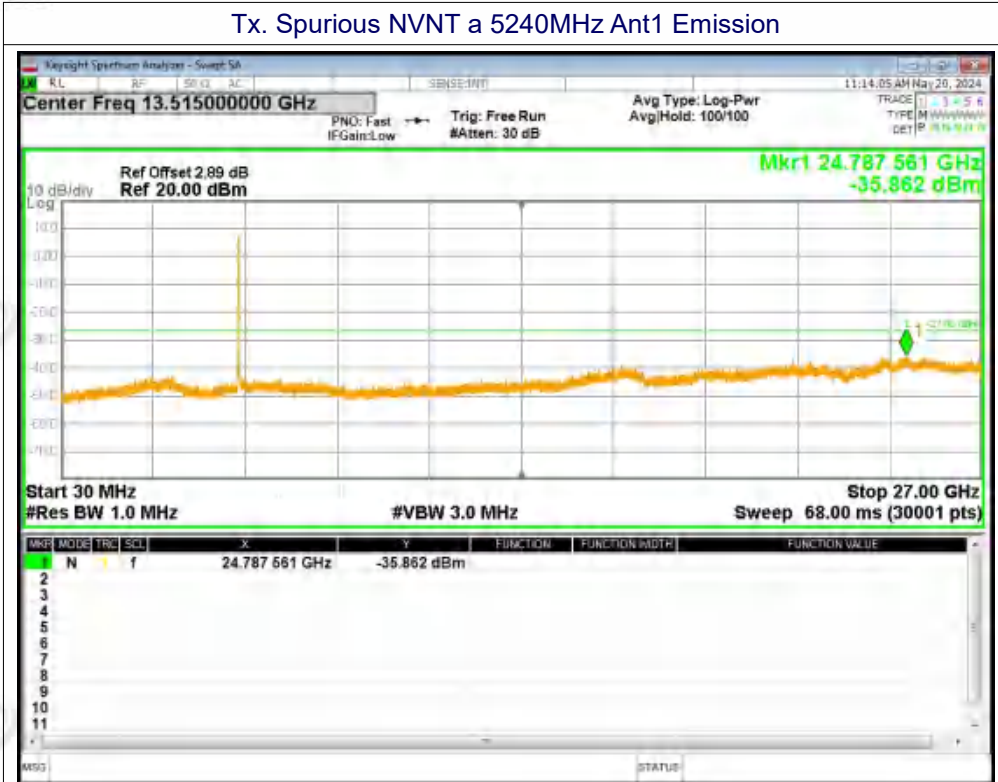


Tx. Spurious NVNT a 5200MHz Ant1 Emission

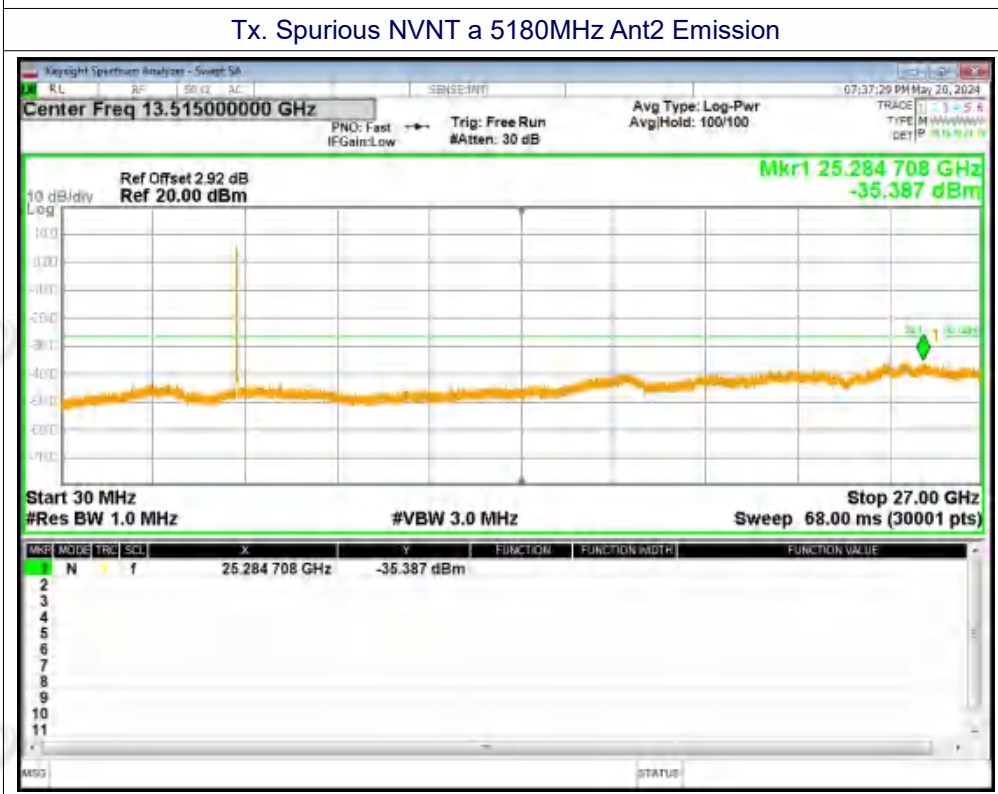




Tx. Spurious NVNT a 5240MHz Ant1 Emission

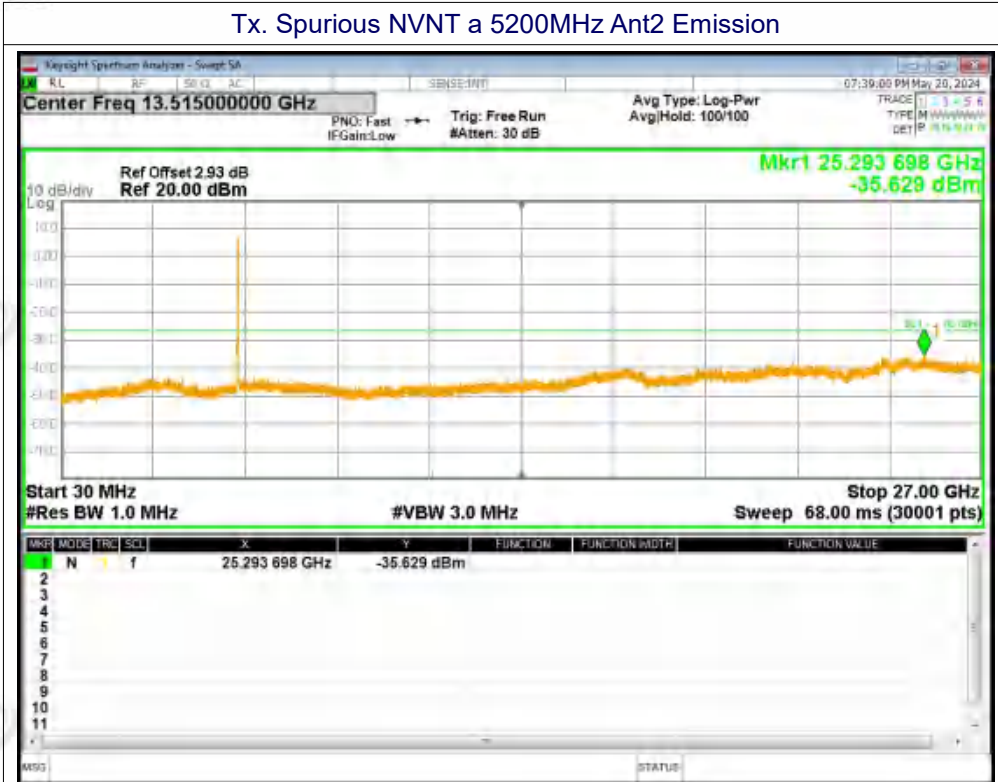


Tx. Spurious NVNT a 5180MHz Ant2 Emission

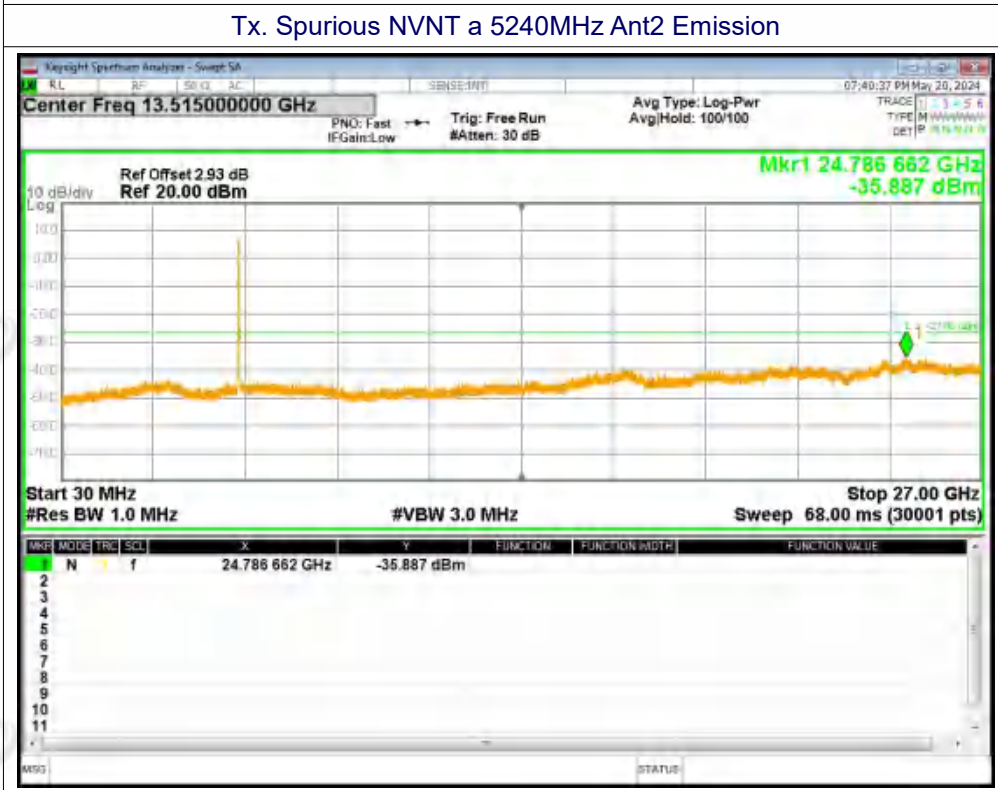




Tx. Spurious NVNT a 5200MHz Ant2 Emission

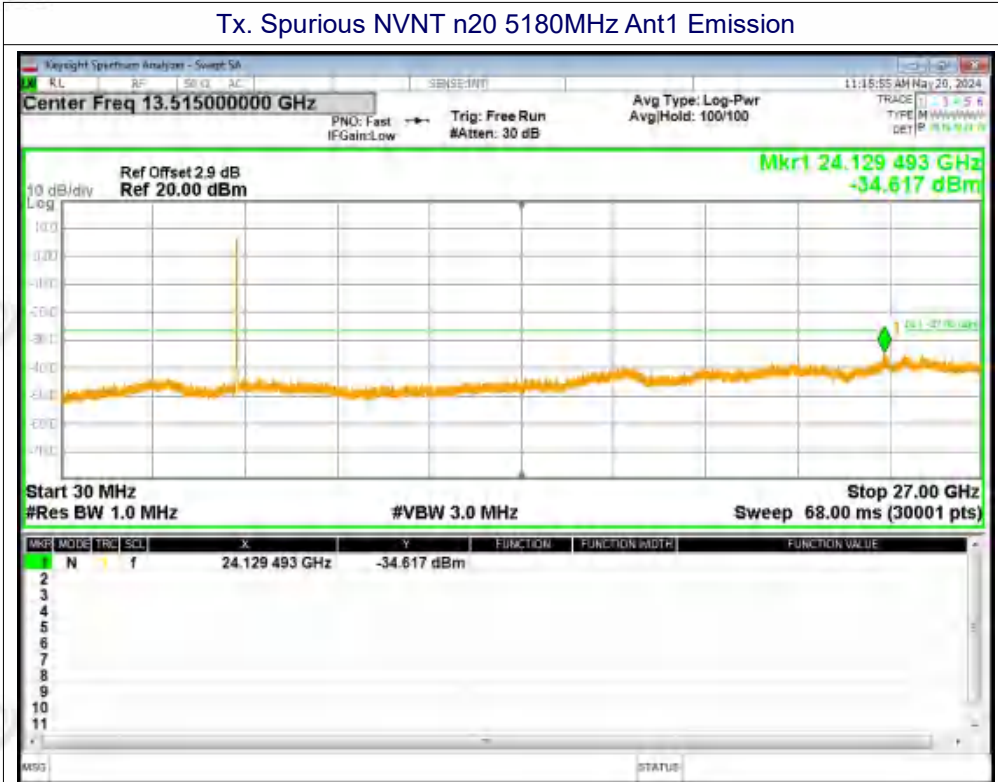


Tx. Spurious NVNT a 5240MHz Ant2 Emission

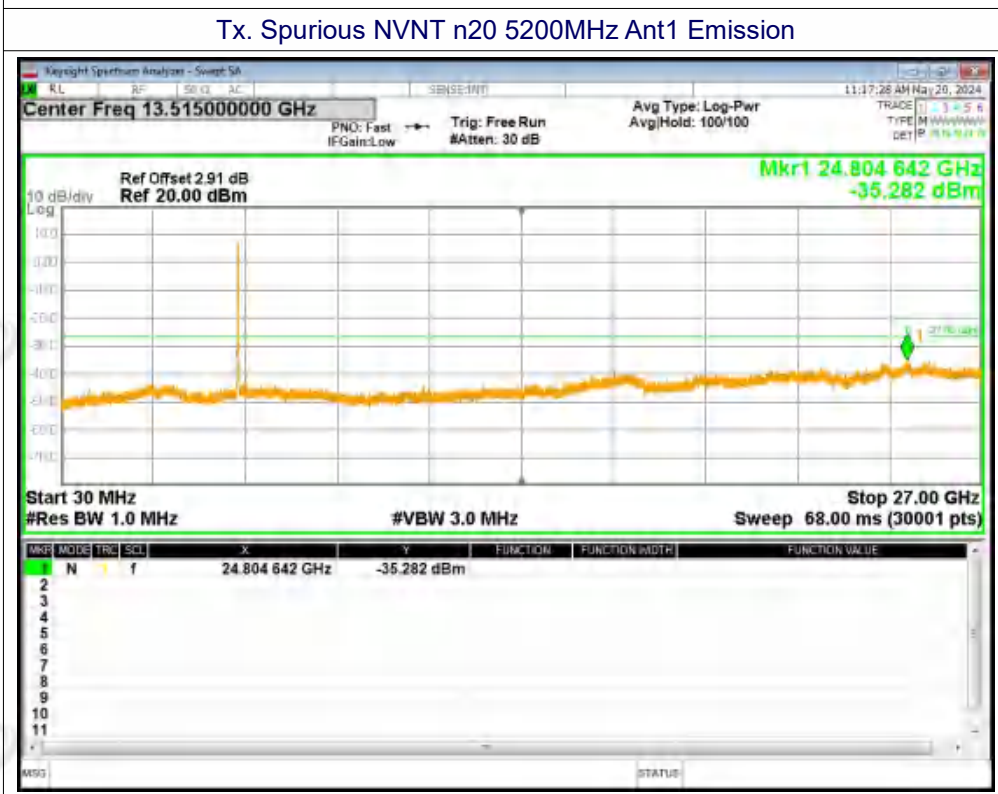




Tx. Spurious NVNT n20 5180MHz Ant1 Emission

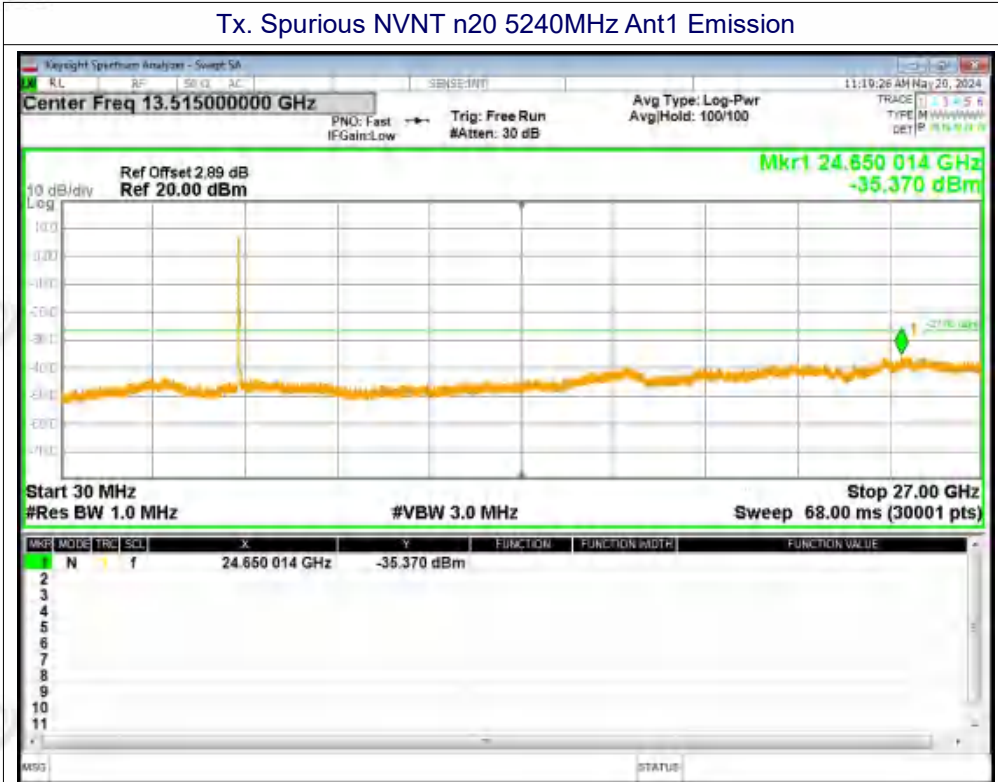


Tx. Spurious NVNT n20 5200MHz Ant1 Emission

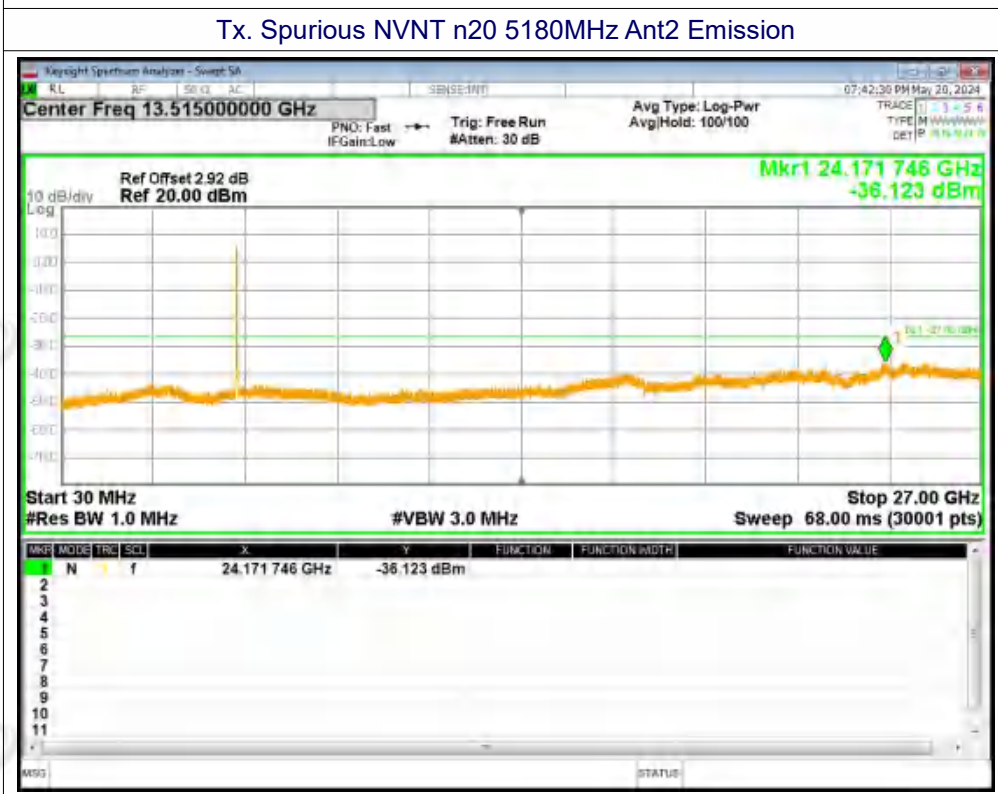




Tx. Spurious NVNT n20 5240MHz Ant1 Emission

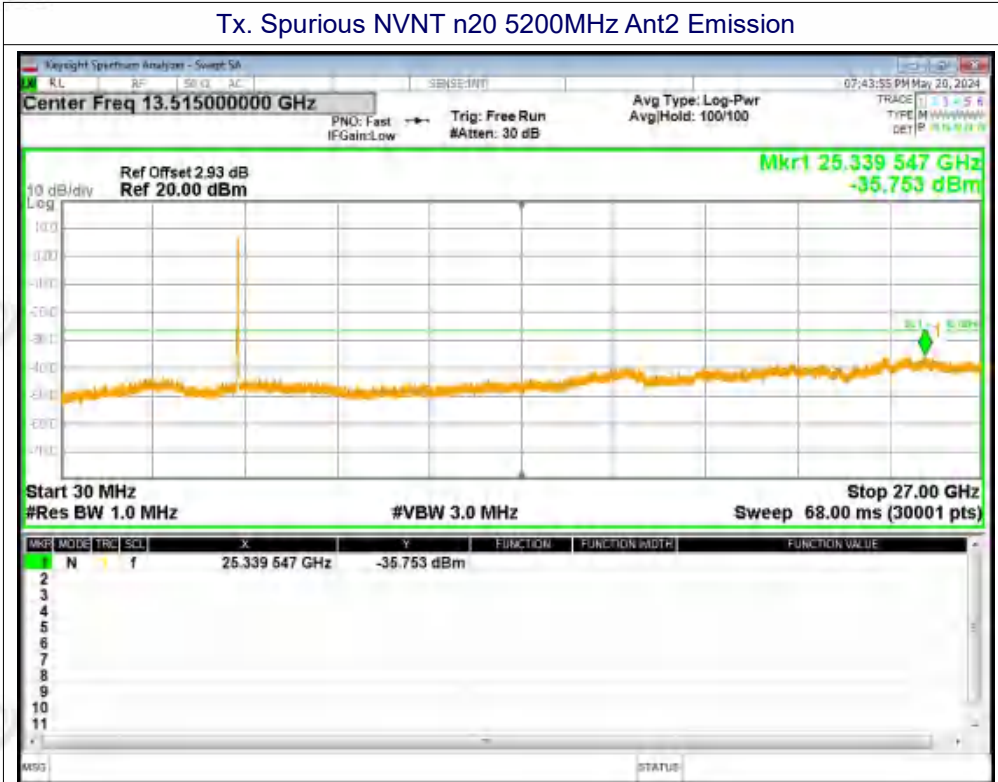


Tx. Spurious NVNT n20 5180MHz Ant2 Emission

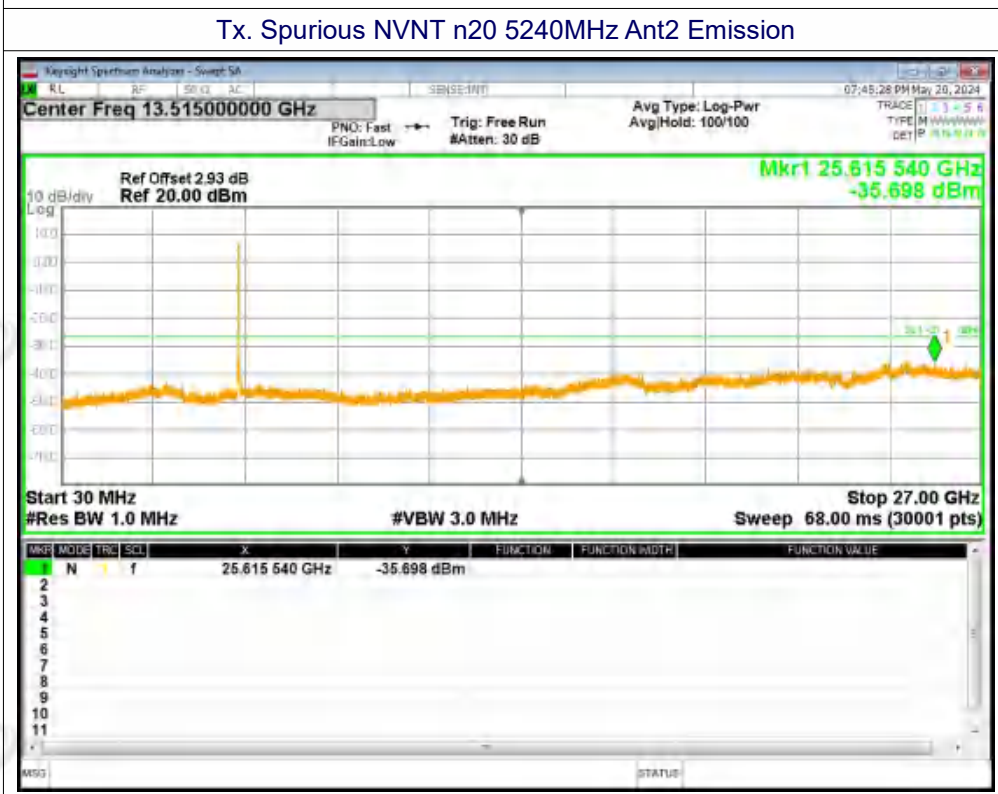




Tx. Spurious NVNT n20 5200MHz Ant2 Emission

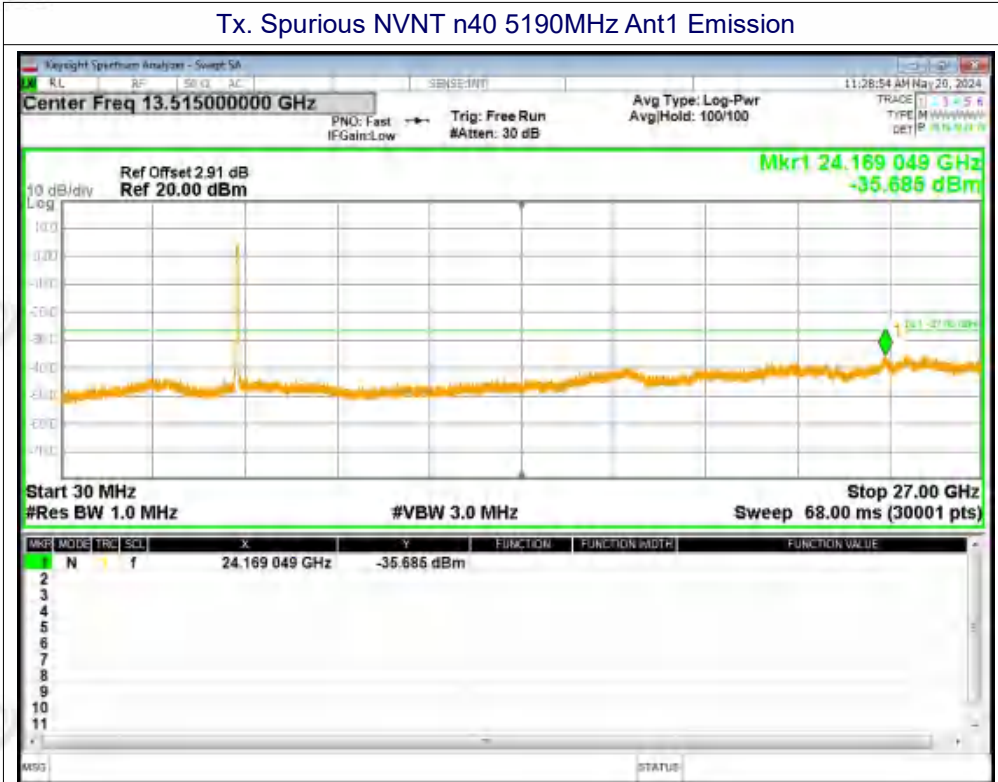


Tx. Spurious NVNT n20 5240MHz Ant2 Emission

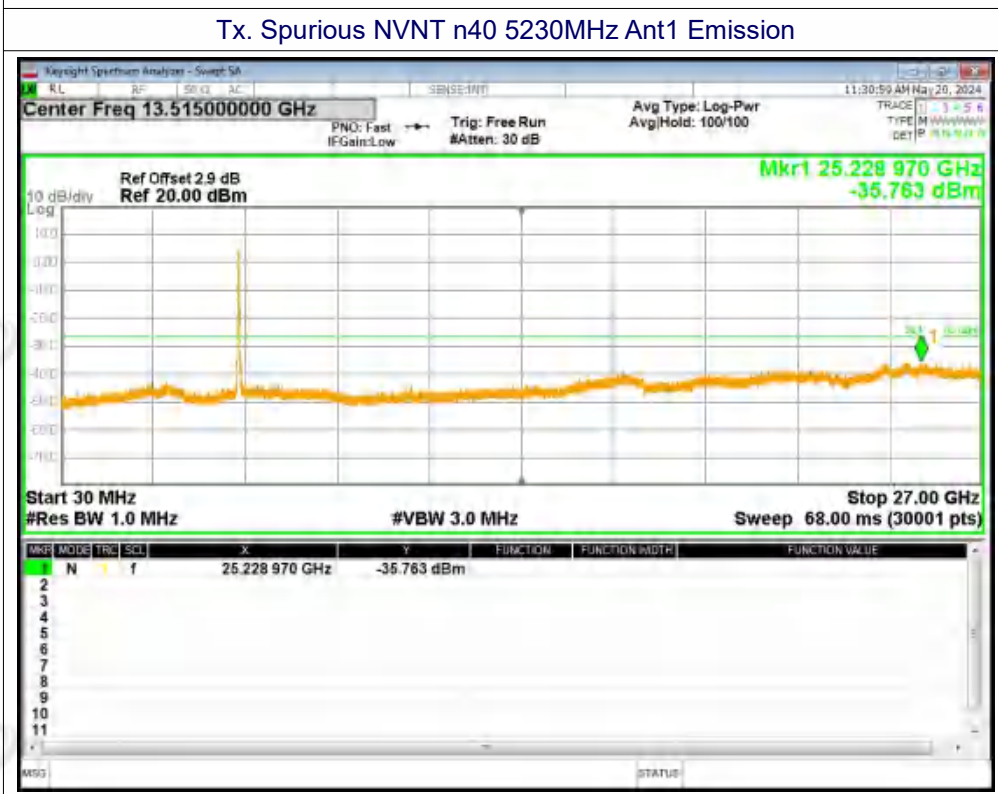




Tx. Spurious NVNT n40 5190MHz Ant1 Emission

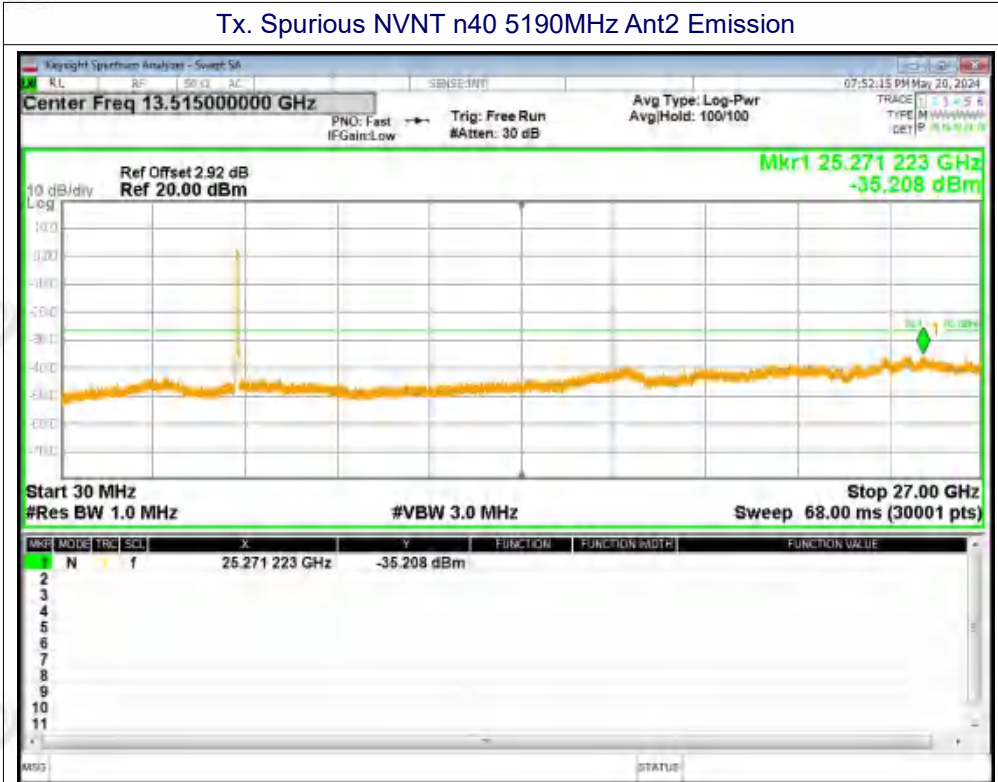


Tx. Spurious NVNT n40 5230MHz Ant1 Emission

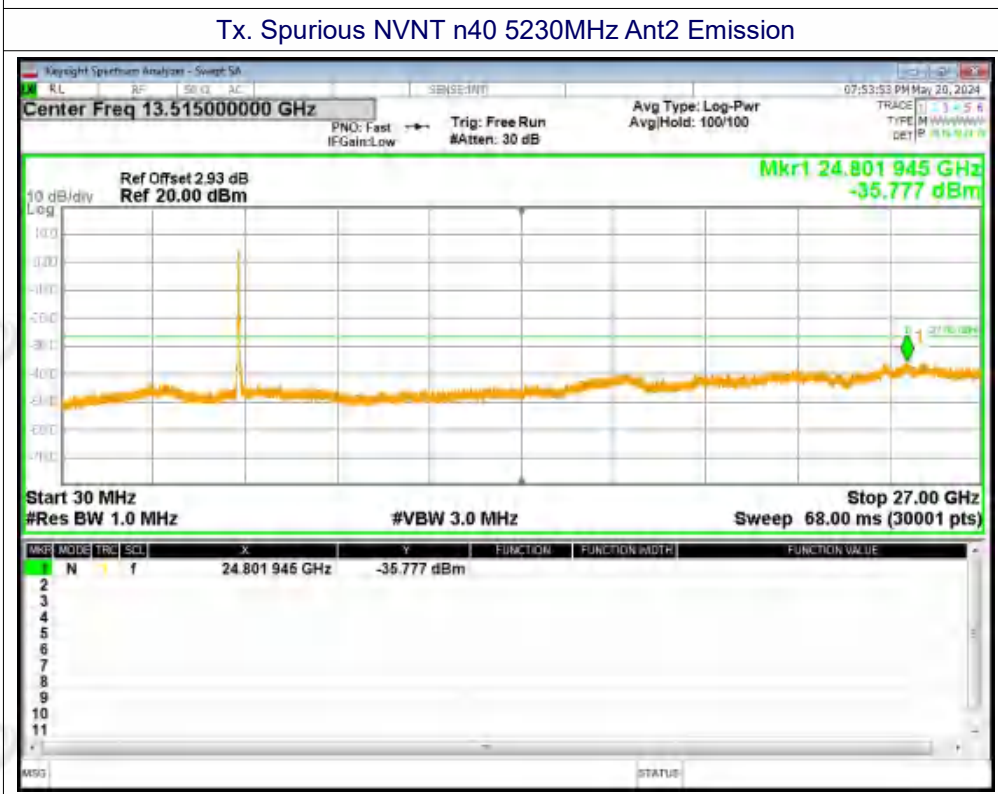




Tx. Spurious NVNT n40 5190MHz Ant2 Emission



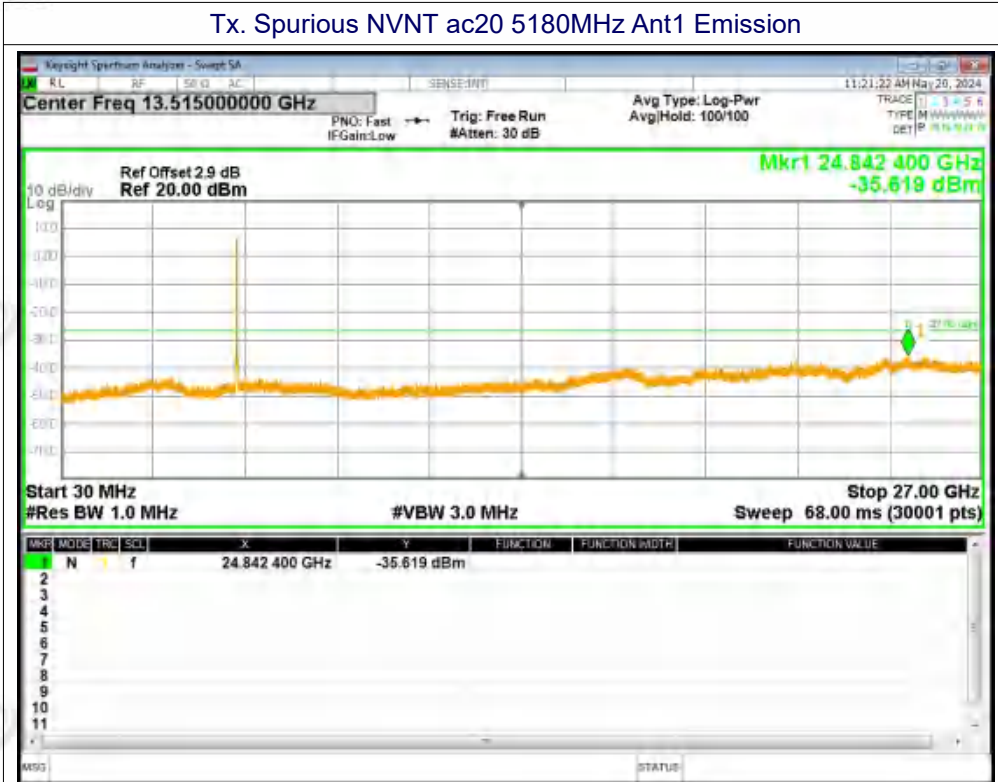
Tx. Spurious NVNT n40 5230MHz Ant2 Emission



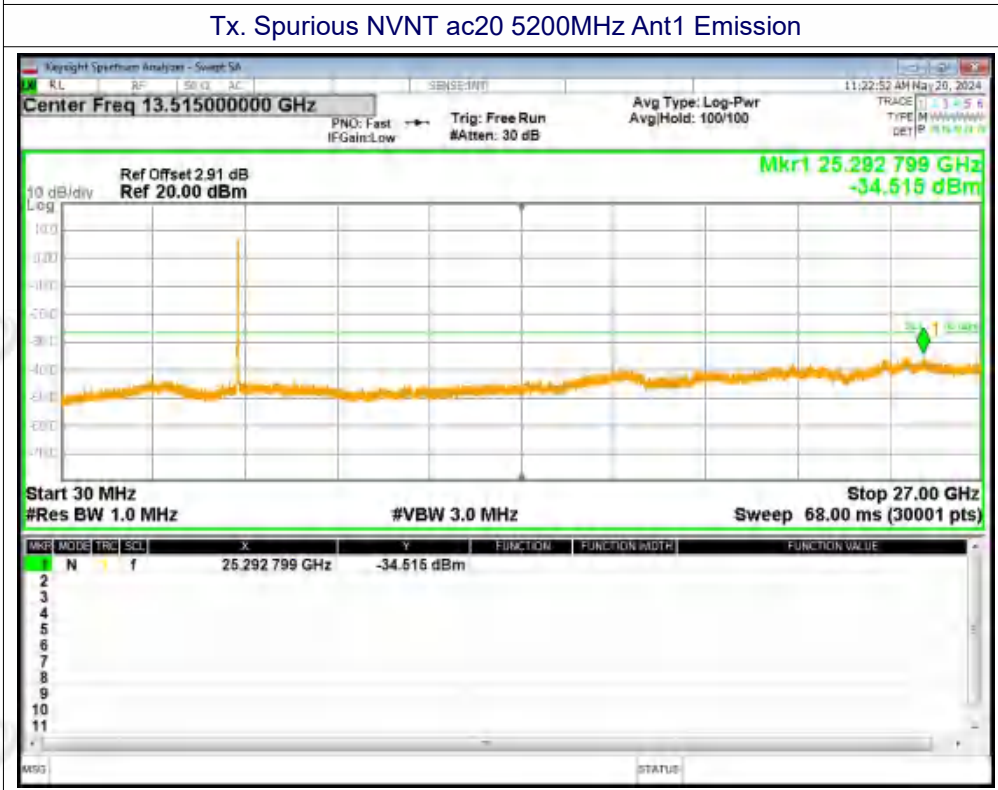




Tx. Spurious NVNT ac20 5180MHz Ant1 Emission



Tx. Spurious NVNT ac20 5200MHz Ant1 Emission

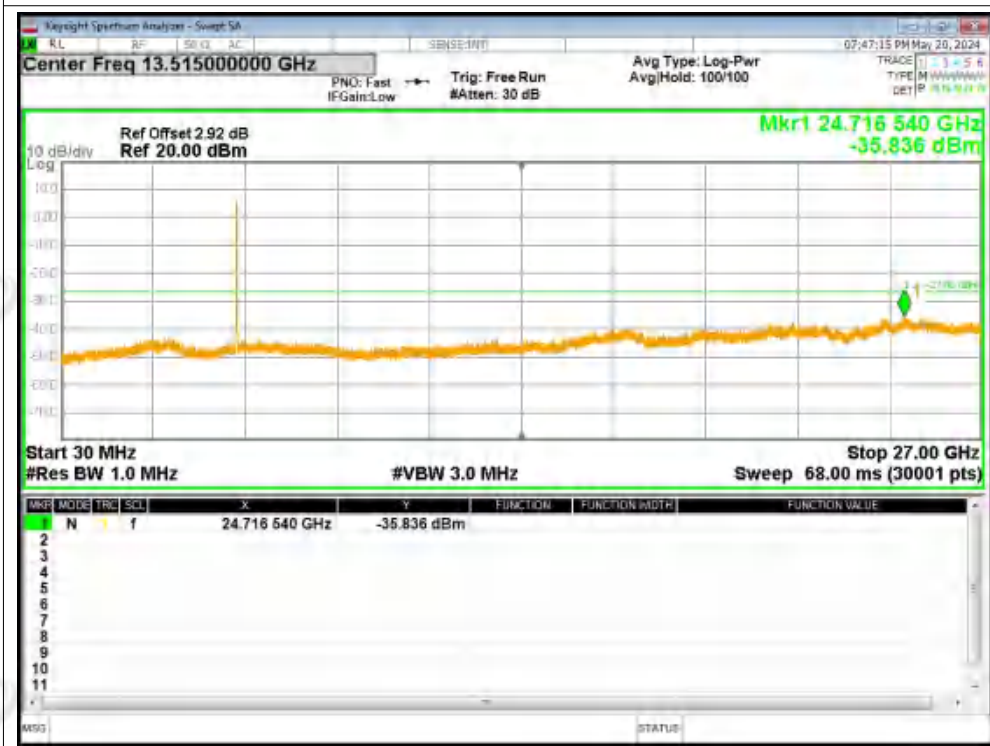




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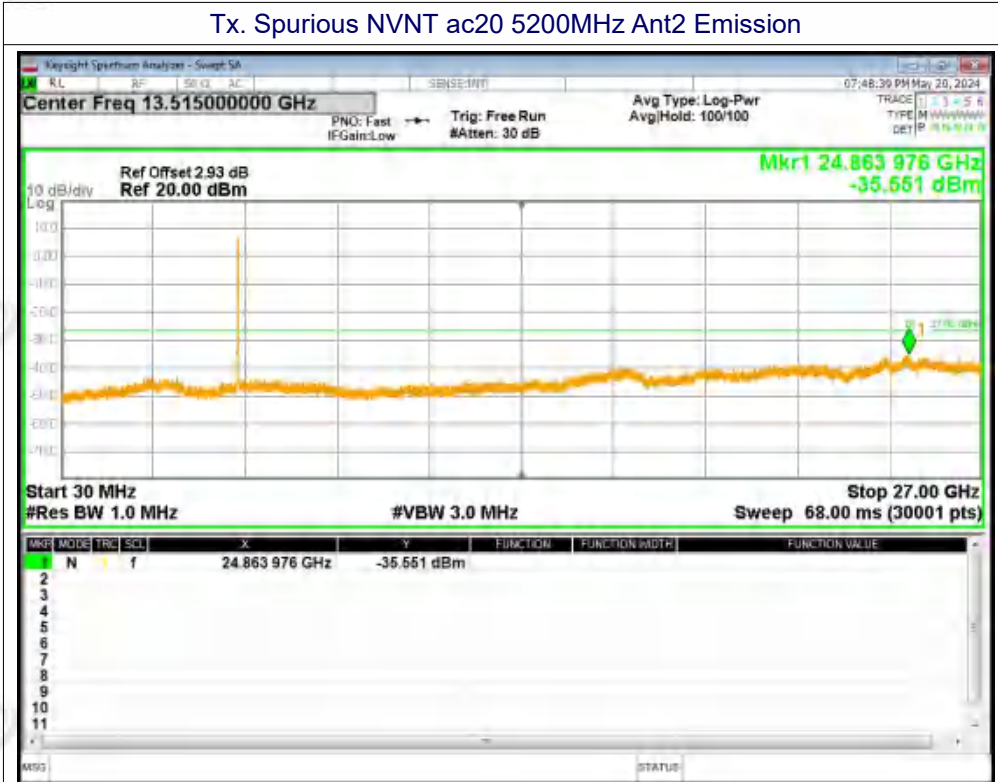


Tx. Spurious NVNT ac20 5180MHz Ant2 Emission

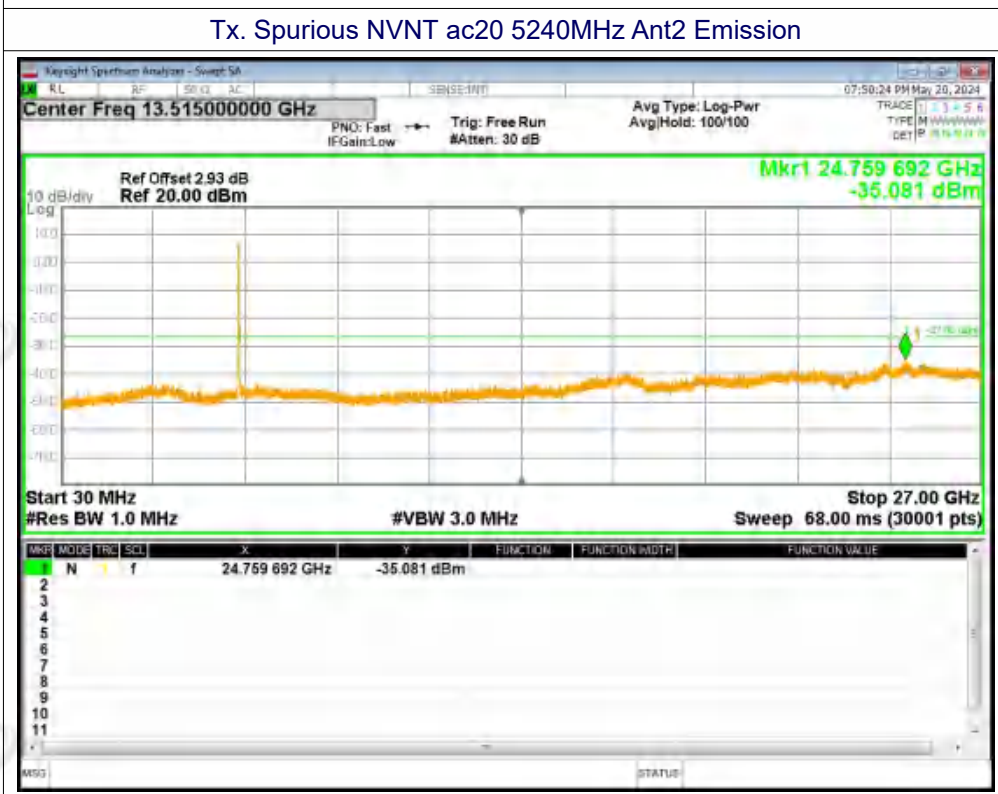




Tx. Spurious NVNT ac20 5200MHz Ant2 Emission



Tx. Spurious NVNT ac20 5240MHz Ant2 Emission

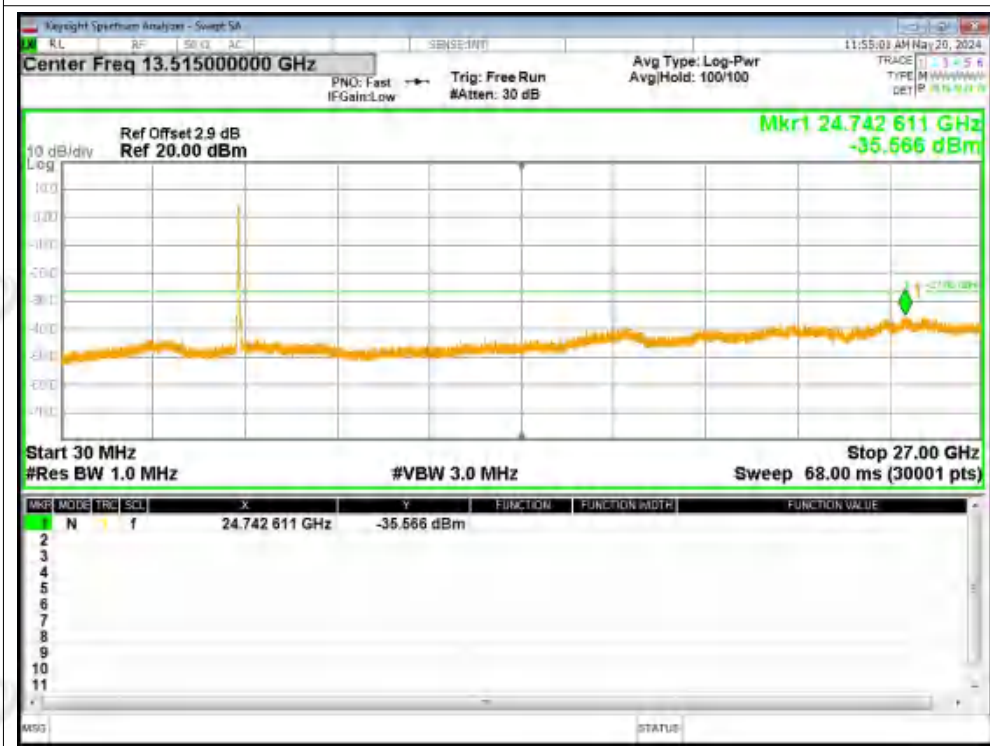




Tx. Spurious NVNT ac40 5190MHz Ant1 Emission

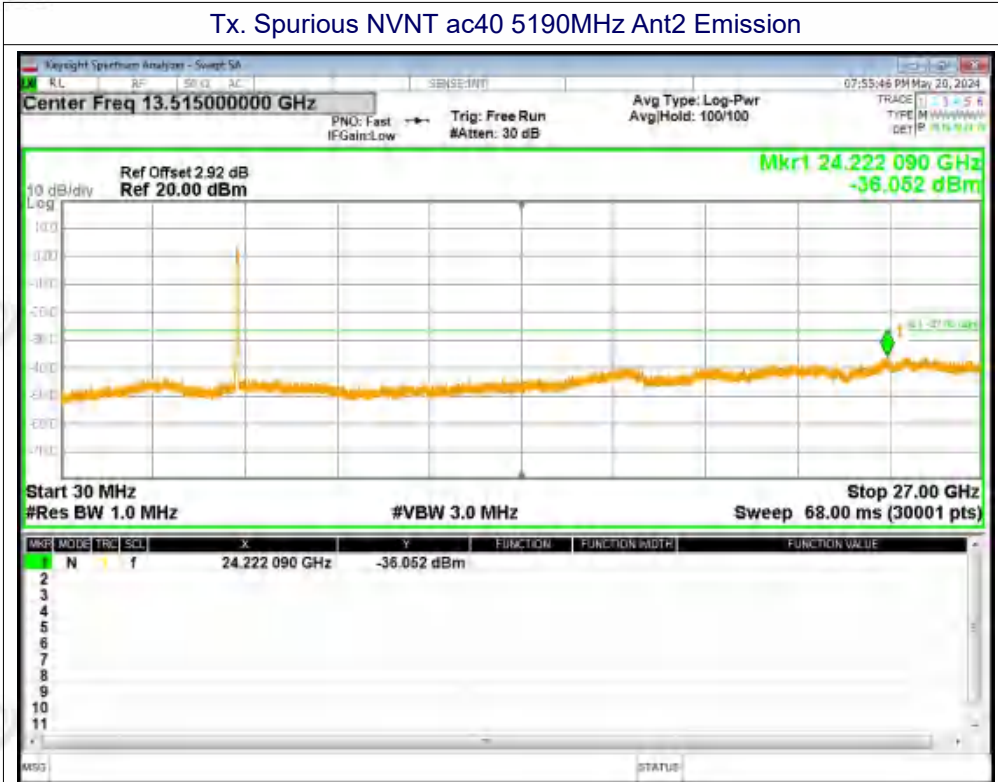


Tx. Spurious NVNT ac40 5230MHz Ant1 Emission

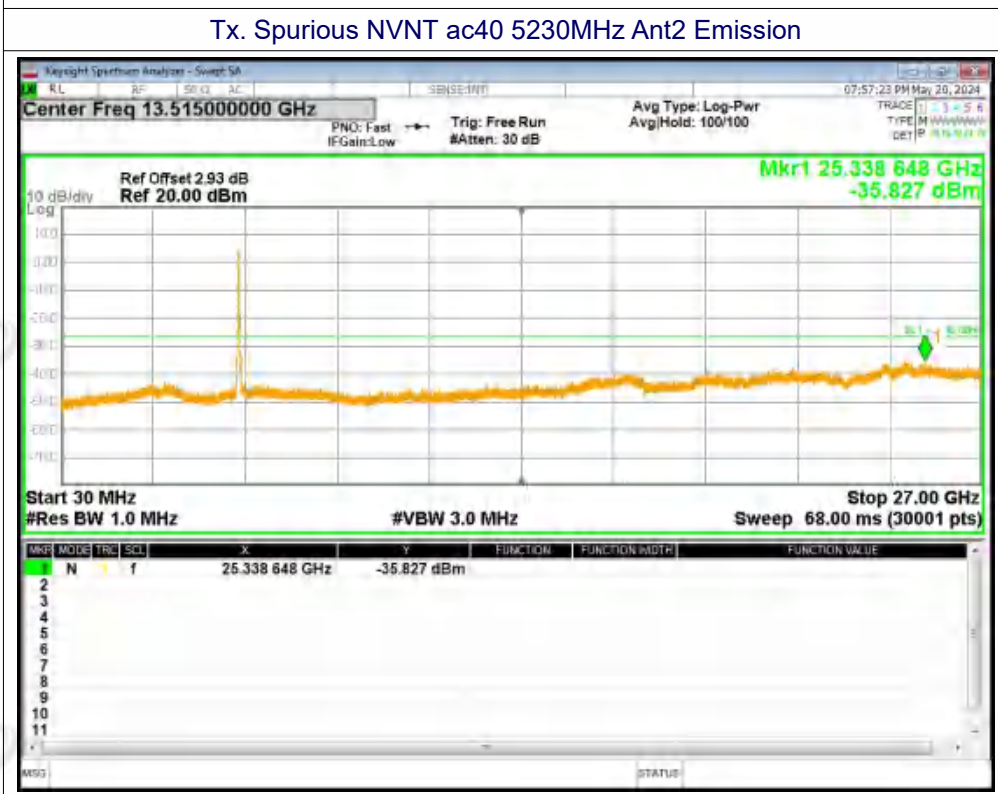




Tx. Spurious NVNT ac40 5190MHz Ant2 Emission

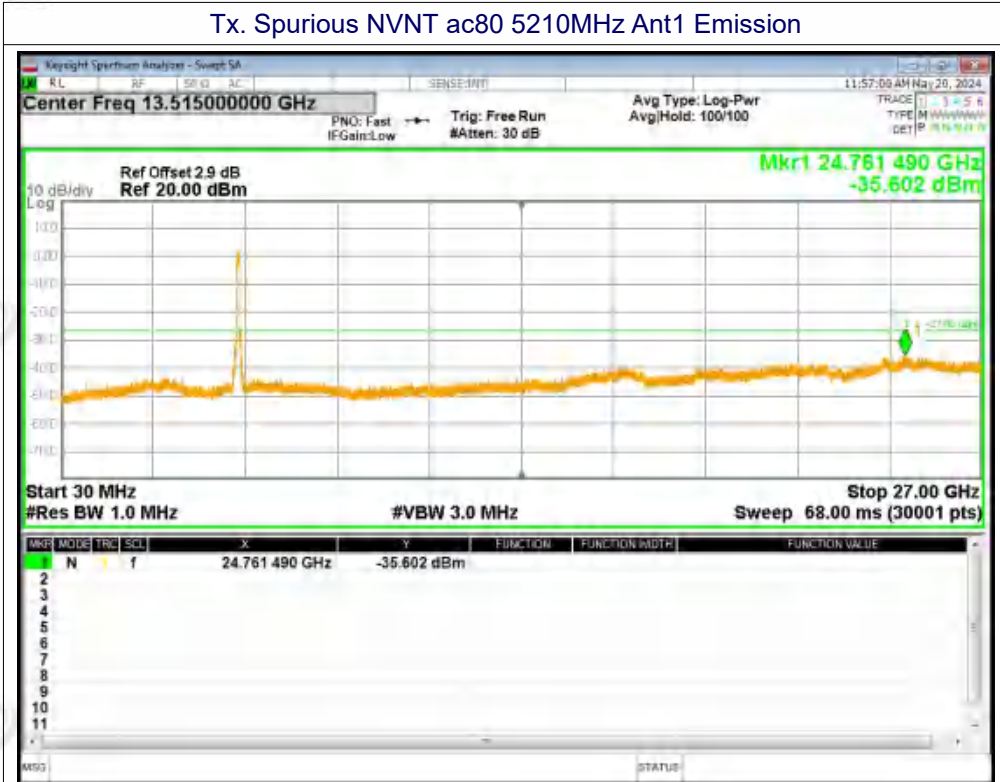


Tx. Spurious NVNT ac40 5230MHz Ant2 Emission





Tx. Spurious NVNT ac80 5210MHz Ant1 Emission



Tx. Spurious NVNT ac80 5210MHz Ant2 Emission

